SCREENING SITE INSPECTION REPORT
FOR
MAGNODE PRODUCTS INCORPORATED
TRENTON, OHIO
U S EPA ID OHD004232823
SS ID NONE
TDD F05-8912-016
PAN F0H0500SB

SEPTEMBER 13, 1991

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SIGNATURE PAGE
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1 INTRODUCTION

Ecology and Environment, Inc , Field Investigation Team (FIT) was tasked by the United States Environmental Protection Agency (U S EPA) to conduct a screening site inspection (SSI) of the Magnode Products Incorporated (MPI) site under contract number 68-01-7347

The site was initially discovered by the Ohio Environmental Protection Agency (OEPA) during an inventory of surface impoundments in the area of the site (U S EPA 1985)

The site was evaluated in the form of a preliminary assessment (PA) that was submitted to U S EPA The PA was prepared by Cynthia Pugh of Ecology and Environment, Inc (E & E), and is dated September 12, 1985 (U S EPA 1985)

FIT prepared an SSI work plan for the MPI site under technical directive document (TDD) F05-8912-016, issued on November 30, 1989 The SSI work plan was approved by U S EPA on August 29, 1990 The SSI of the MPI site was conducted on October 15 and 16, 1990, under amended TDD F05-8912-016, issued on September 19, 1990

The FIT SSI included an interview with site representatives, a reconnaissance inspection of the site, and the collection of six soil/ sediment samples and three groundwater samples

The purposes of an SSI have been stated by U S EPA in a directive outlining Pre-Remedial Program strategies The directive states

> All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS [Hazard Ranking System] score, 2) establish priorities among sites most likely to qualify for

> the NPL [National Priorities List], and 3) identify the most critical data requirements for the listing SI step A screening SI will not have rigorous data quality objectives (DQOs) Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP [no further remedial action planned], or carried forward as an NPL listing candidate A listing SI will not automatically be done on these sites, however First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA [Resource Conservation and Recovery Act] Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI
>
> The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs It may also provide needed data in a format to support remedial investigation work plan development Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing SI (U S EPA 1988)

U S EPA Region V has also instructed FIT to identify sites during the SSI that may require removal action to remediate an immediate human health or environmental threat

2 SITE BACKGROUND

2 1 INTRODUCTION

This section presents information obtained from SSI work plan preparation, the site representative interview, and the reconnaissance inspection of the site

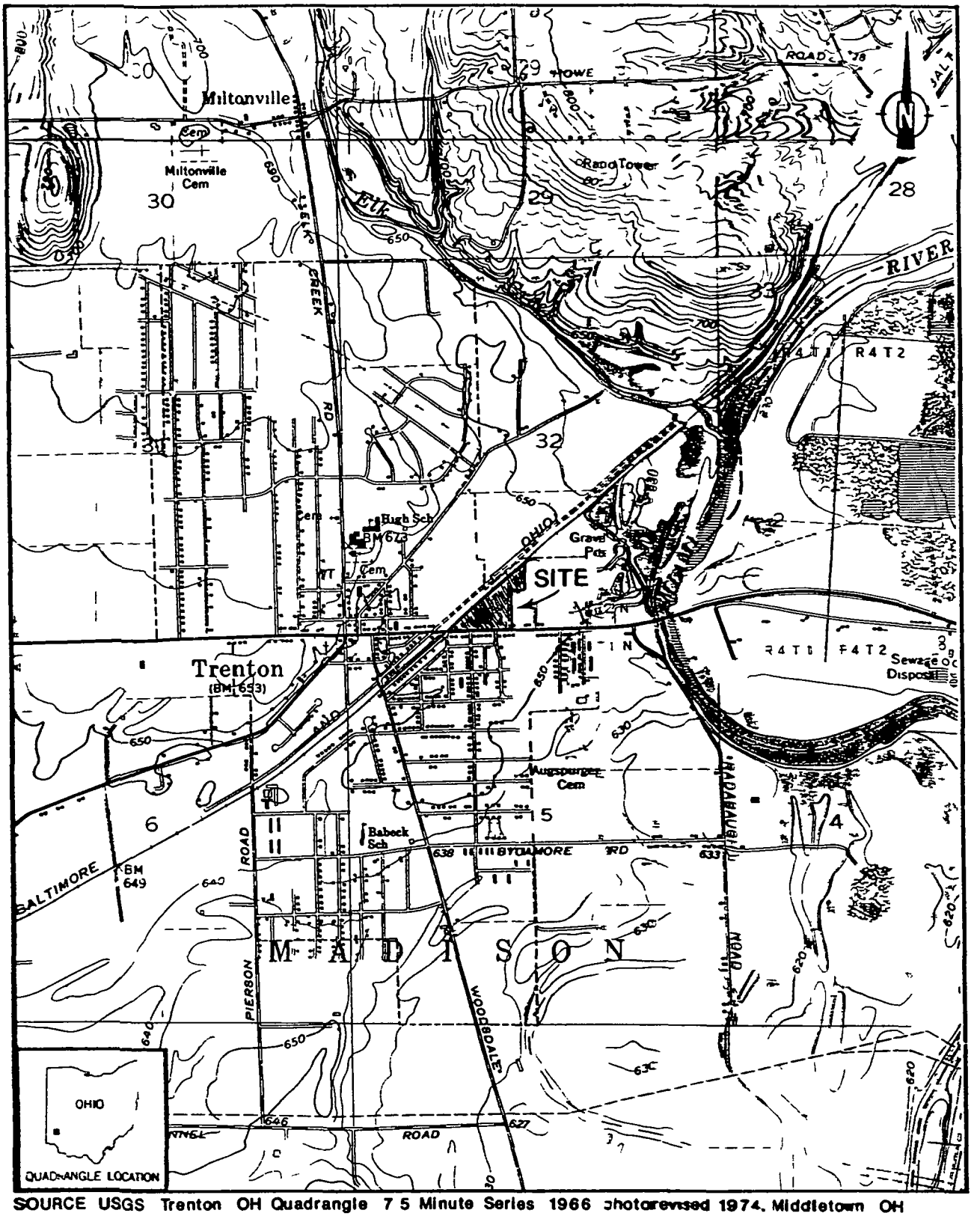
2 2 SITE DESCRIPTION

The MPI site is an approximately 9 8-acre parcel of land owned by Magnode Corporation The site is occupied by an active magnesium and aluminum extrusion plant that conducts finishing processes such as etching, sulphuric acid anodizing, electrolytic coloring, and chromate conversion coating Magnode custom forms parts for a variety of industrial companies The MPI site is located on the eastern side of the city of Trenton at 400 East State Street, Trenton, Madison County, Ohio (SE1/4SW1/4 sec 32, T 2N , R 4E) (see Figure 2-1 for site location) The site is approximately 20 feet south of Baltimore and Ohio Railroad tracks and approximately 2,000 feet west of the Great Miami River The land north and east of the MPI site is sparsely populated The land south and west of the site is moderately populated with light commercial and industrial companies

A 4-mile radius map of the MPI site is provided in Appendix A

2 3 SITE HISTORY

Magnode Products, Inc , purchased a 1 8-acre parcel of land for its Trenton, Ohio, manufacturing facility in October 1950 from Schaible Company (Picard 1990) Between 1910 and 1950, the parcel of land was



SOURCE USGS Trenton OH Quadrangle 7 5 Minute Series 1966 photorevised 1974, Middletown OH Quadrangle 7 5 Minute Series 1959 photorevised 1981

FIGURE 2-1 SITE LOCATION

occupied by an automobile repair shop of unknown ownership Between 1957 and 1979 Magnode Products, Inc , purchased four adjacent parcels of land Two of the four parcels were purchased from the City of Trenton in July 1979 A third parcel was purchased from Thornton and Elizabeth Shockey in December 1957, and the fourth was purchased from Mr and Mrs Lawrence Martin, Jr , in April 1979 (Picard 1990) No information concerning prior use of these parcels is available Together, the four parcels and the original 1 8-acre parcel of land constitute the site In February 1980, Magnode Products, Inc , merged with Magnode Corporation, which is now the current owner and operator of the site (Picard 1990)

On-site operations first began in 1952 when Magnode Products, Inc , began stamping out parts with an on-site press (Adams et al 1990) Aluminum extrusion operations began in 1959 and continue up to the present Magnode Corporation also operates a magnesium extrusion process, the date in which this process began is not known

Both solid and liquid wastes are generated at the plant Scrap aluminum is the main solid waste generated at the site All scrap aluminum is melted down and recycled (Adams et al 1990) It is not known when Magnode Corporation began using magnesium Until 1980, the company recycled its own scrap magnesium From 1980 to 1984, Magnode Corporation sold its scrap magnesium to Dow Chemical Magnode Corporation stopped using magnesium in 1984 Waste quench water, waste solvents, and waste die etch solution are also produced at the plant The waste cleaning solvents are picked up and transported off-site for recycling (Adams et al 1990) Waste die etch solution (sodium hydroxide) is stored in two 3,000-gallon tanks and is later transported off-site by a licensed hazardous waste hauler (Adams et al 1990) These on-site storage tanks are surrounded by a concrete secondary containment structure that collects spills and overflow An OEPA inspection conducted on April 19, 1989, revealed several violations at the site regarding improper labeling of storage tanks containing hazardous waste and inadequacies in on-site secondary containment structures (Adams 1989) By August 1989, Magnode Corporation had rebuilt an adequate secondary containment structure, labeled all hazardous waste containers, and

implemented a hazardous waste training program for employees who work with hazardous wastes (Adams et al 1990)

Since 1963, when the company switched from air cooling extruded parts to water quenching extruded parts, waste quench water has been generated on-site (Adams et al 1990) It is not known how this waste quench water was disposed of between 1963 and 1967 In 1967, an on-site lagoon was excavated for the collection of quench water overflow, as well as for roof and parking lot rain water runoff (Adams et al 1990) This lagoon was located in the northeast portion of the site

In 1973, the lagoon was filled in and a cast storage house constructed over the filled lagoon Between 1973 and 1979, a temporary lagoon was excavated just south of the new cast storage house This temporary lagoon was created for the collection of rain water runoff and overflow from quench water baths located in the northeast corner of the site In 1979, an addition was built onto the southern end of the cast storage house and the temporary lagoon was filled in Magnode Corporation purchased a parcel of land adjacent to the northeast corner of the site from Mr and Mrs Martin, and excavated a third lagoon on-site for the collection of rain water runoff and quench water overflow (Adams et al 1990, Picard 1990) All of the on-site lagoons were unlined (U S EPA 1985) The third lagoon is still active and is completely fenced with a locked gate

No regulatory related activities have taken place regarding the site

3 SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

3 1 INTRODUCTION

This section outlines procedures and observations of the SSI of the MPI site Individual subsections address the site representative interview, reconnaissance inspection, and sampling procedures Rationales for specific FIT activities are also provided The SSI was conducted in accordance with the U S EPA-approved work plan

The U S EPA Potential Hazardous Waste Site Inspection Report (Form 2070-13) for the MPI site is provided in Appendix B

3 2 SITE REPRESENTATIVE INTERVIEW

Mary Tierney, FIT team leader, conducted an interview with Johnie L Adams, Vice President of Manufacturing, Arnold U Hurst, Manufacturing Engineer, and Arlie Fraley, Plant Engineer, all with Magnode Corporation Kenneth A Pendleton, President, K A Pendleton Company, Inc , consultant for Magnode Corporation, was also present at the site representative interview The interview took place in an on-site conference room on October 15, 1990, at 8 45 a m The purpose of the interview was to gather information that would aid FIT in conducting SSI activities

3 3 RECONNAISSANCE INSPECTION

Following the site representative interview, FIT conducted a reconnaissance inspection of the MPI site and surrounding area in accordance with E & E health and safety guidelines The reconnaissance inspection began at 10 35 a m on October 15, 1990, and included a walk-through of

the site to determine appropriate health and safety requirements for conducting on-site activities and to make observations to aid in characterizing the site FIT also determined sampling locations during the reconnaissance inspection FIT was accompanied by the site representatives during the reconnaissance inspection

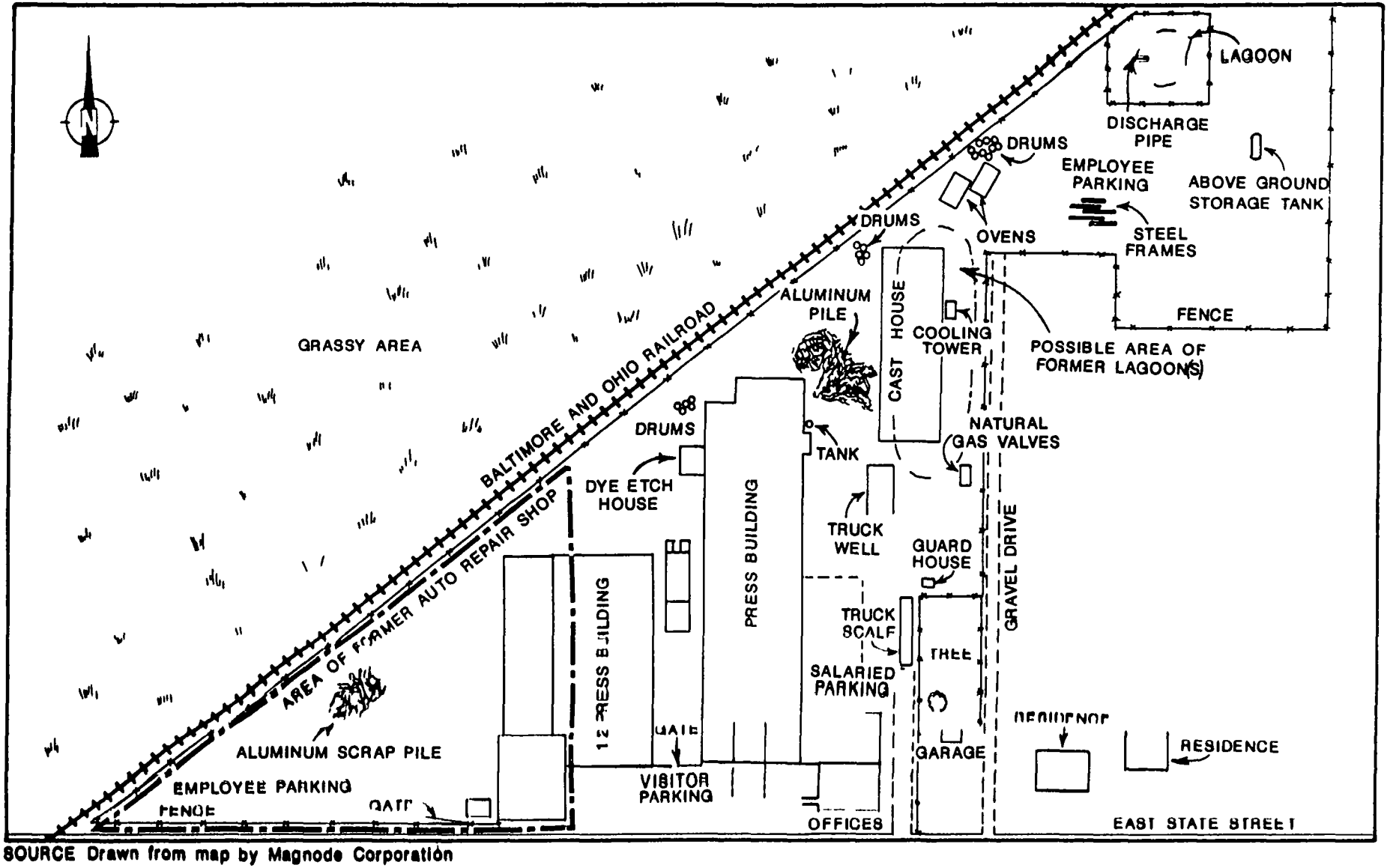
Reconnaissance Inspection Observations The MPI site is a triangularly shaped parcel of land located on the eastern half of the city of Trenton (see Figure 3-1 for site features) The site is completely surrounded by a fence on the west, north, east, and southwest sides The general topography of the site and immediate area is flat

The site is bordered by Baltimore and Ohio Railroad tracks on the north and west and by East State Street on the south The site is bordered on the east by a fence Residential housing is situated to the southeast of the site, and undeveloped land to the northeast

Site operations take place in four buildings on-site A number 1, 2 press building is located in the southwest portion of the site A number 5 press building is immediately east of the number 1,2 press building A guard house is located east of the number 5 press building An office building is located in the southeast portion of the site, and an aluminum cast storage house is in the northeast portion of the site Two quench water ovens and baths are located immediately northeast of the aluminum cast storage house A lagoon is situated in the northeast corner of the site This lagoon is completely surrounded by a fence A salaried employee parking lot, visitor parking lot, and hourly employee parking lot are located in the southeast, central, and southwest parts of the site, respectively

The parking lots and an area east of the aluminum cast storage house are the main paved areas on-site Some loading dock areas, which are along the south side of the aluminum cast storage house, are asphalted also An additional employee parking lot is located in the northeast portion of the site This parking lot is gravel-covered

The remaining open areas surrounding the plant are mostly gravel-covered, although some soil can be seen along the northwest border of the site Lawn is located along the west and south sides of the office building, as well as around the lagoon A 3-foot strip of lawn is also located along the site's east border



SOURCE Drawn from map by Magnode Corporation

SCALE

0 100 200 300 400 500 FEET

FIGURE 3-1 SITE FEATURES

FIT observed steel frames just south of the lagoon in the northeast corner of the site A 30,000-gallon aboveground storage tank was located east of the steel frames This storage tank used to contain propane, however, it has since been flushed with nitrogen and is now empty Scrap aluminum is stored in a scrap pile just west of the aluminum cast storage house, as well as in an employee parking lot in the southwest corner of the site Although this area is normally used as an employee parking lot, this area is currently being used as a temporary storage area for scrap aluminum because of a large inventory of aluminum scrap A 6,000-gallon and a 9,000-gallon aboveground storage tank, both containing liquid nitrogen, were located west of the number 5 press building Approximately 40 rusty, empty drums were observed on wooden pallets approximately 20 feet northeast of the two quench water ovens Most of these drums had contained cutting oil (Adams et al 1990) Approximately 10 empty drums were observed just northwest of the aluminum cast storage house and along the northwest fence These drums allegedly contained cutting oil Several of these drums were lying on their sides on a small patch of black soil

Aluminum billets were stored east and northeast of the aluminum cast storage house, west of the scrap pile in the southwest corner of the site, and along the site's northwest border The number 5 press building had an awning over the eastern half of its north wall Billets, wooden pallets, and drums were stored under the awning Some of these drums appeared to be empty, others may have contained cutting oil

The active lagoon, which is approximately 100 feet long by 40 feet wide and 10 to 12 feet deep, is in the northwestern corner of the site The lagoon is unlined and has steeply sloped banks The water level was approximately 3 feet below ground level at the time of the FIT SSI The water in the lagoon was very clear FIT observed algae-covered metal debris near the lagoon's northern edge Several turtles and frogs were observed by FIT in and around the lagoon

Drains collecting runoff from the on-site roofs and parking lots lead to the lagoon According to Fraley, each loading dock and truck well area has a drain leading to the lagoon (Adams et al 1990) A drain was also located just south of the die etch house Occasionally,

the spent sodium hydroxide solution from the die etch process overflows its holding tanks It is possible that some of this solution can migrate into the lagoon

FIT photographs from the SSI of the MPI site are provided in Appendix C

3 4 SAMPLING PROCEDURES

Samples were collected by FIT at locations selected during the reconnaissance inspection to determine whether U S EPA Target Compound List (TCL) compounds or Target Analyte List (TAL) analytes were present at the site The TCL and TAL are included with corresponding quantitation/detection limits in Appendix D

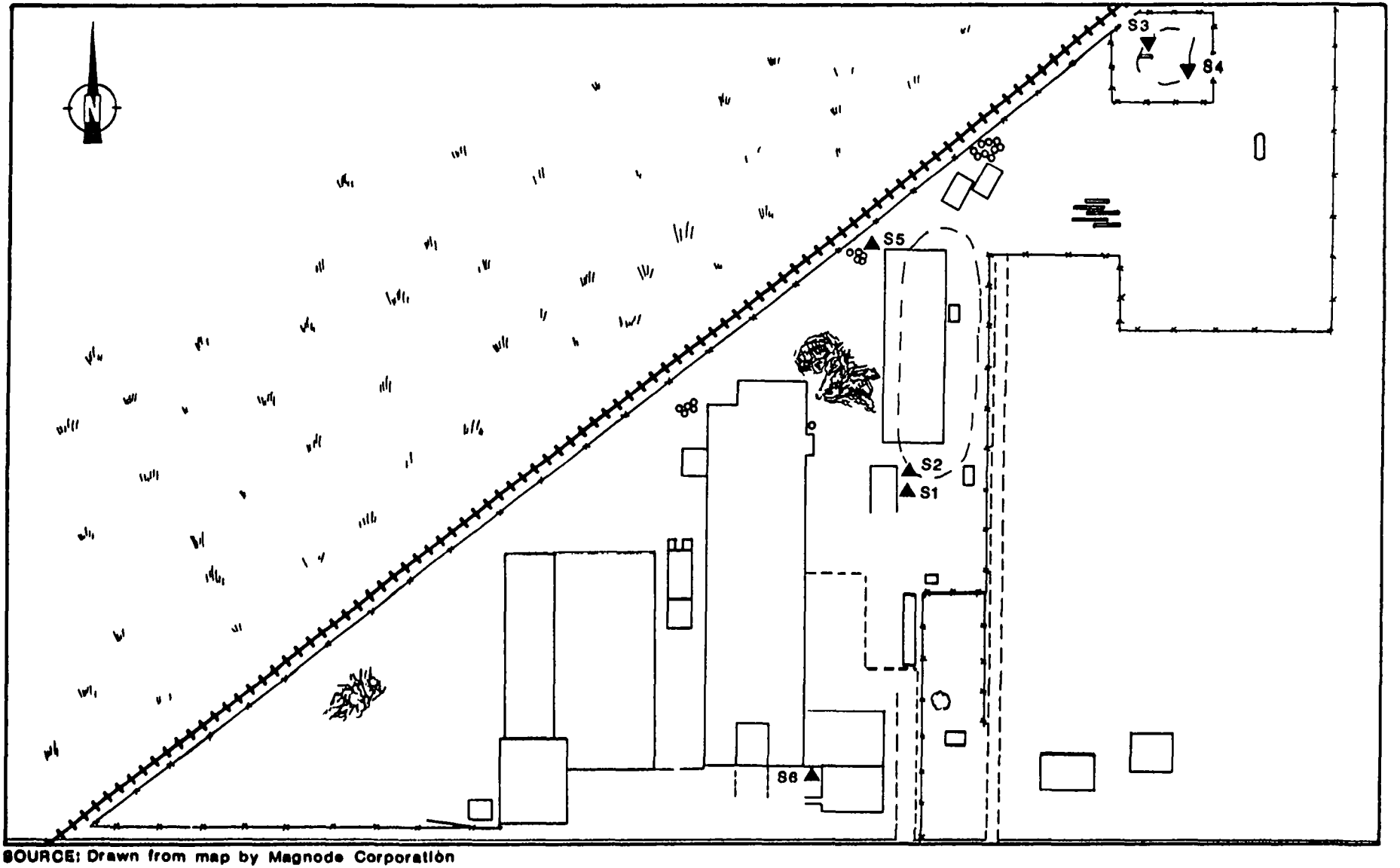
FIT collected six soil/sediment samples on October 15, 1990, and three groundwater samples on October 16, 1990 The site representatives did not accept offered portions of the FIT-collected samples

Soil/Sediment Sampling Procedures All six soil/sediment samples (S1 through S6) were grab samples Samples S1 and S2 were subsurface soil samples collected at depths of 7 feet, 10 inches, and 10 feet, 3 inches, respectively, from locations believed to be in the area of the former lagoons Sampling locations S1 and S2 were approximately 40 and 30 feet south of the aluminum cast storage house, respectively (see Figure 3-2 for soil/sediment sampling locations)

Samples S3 and S4 were both surface sediment samples collected from the western and eastern sides of the active lagoon, respectively Sample S3 produced a pungent, sulfur-like odor when it was collected

Soil sample S5 was a surface soil sample collected from a 3 foot by 3 foot patch of discolored soil located near drums stored immediately northwest of the aluminum cast storage house Soil sample S6 was collected as a potential background sample to determine the representative chemical content of the soil in the area of the site Soil samples S5 and S6 were both collected at depths of approximately 2 to 3 inches Sampling location S6 was in the bushes adjacent to the northwest corner of the office building

A power auger and hand auger were used to collect samples S1 and S2 The remaining samples were collected with a trowel or spoon The sample portions collected for volatile organic analysis were transferred



SOURCE: Drawn from map by Magnode Corporation

SCALE

0 100 200 300 400 500 FEET

LEGEND

▲SOIL ▼SEDIMENT

FIGURE 3-2 SOIL/SEDIMENT SAMPLING LOCATIONS

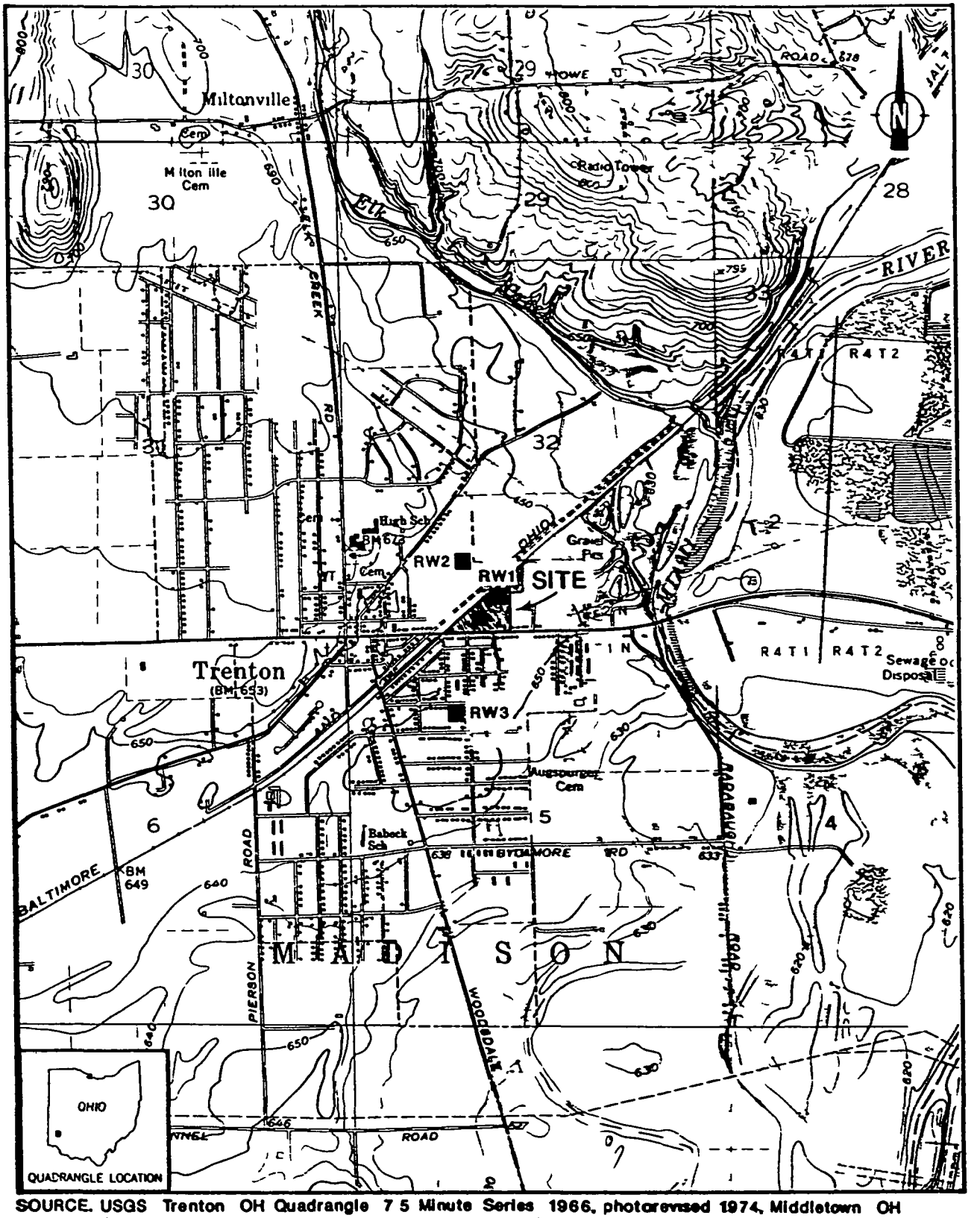
directly to sample bottles The remaining sample portions were placed into a stainless steel bowl, mixed, and then transferred to the appropriate sample bottles using a stainless steel spoon or a hand trowel (E & E 1987)

Standard E & E decontamination procedures were adhered to during the collection of all soil/sediment samples The procedures included the scrubbing of all equipment (e g , trowels, spoons, power auger flights, and stainless steel bowl) with a solution of detergent (Alconox) and distilled water, and triple-rinsing the equipment with distilled water before the collection of each sample (E & E 1987) All samples were packaged and shipped in accordance with U S EPA-required procedures

As directed by U S EPA, all samples were analyzed using the U S EPA Contract Laboratory Program (CLP)

Groundwater Sampling Procedures Three groundwater samples, including one municipal well sample, one residential well sample, and one production well sample, were collected by FIT to determine whether TCL compounds or TAL analytes from the site had migrated to groundwater in the vicinity of the site The samples are designated as RW1, RW2, and RW3 Sample RW1 was collected from an on-site production well located on the east side of the aluminum cast storage house (see Figure 3-3 for groundwater sampling locations) Water from the production well is used for contact and noncontact cooling water Sample RW2 was collected from a Trenton municipal well located approximately 800 feet north of the site This municipal well is in an area known as the "Northeast Well Site" (Whitt 1991) Sample RW2 was collected for use as a potential upgradient sample Sample RW3 was collected from a residential well at a house located near the corner of Ohio and Third streets, approximately 1,200 feet south of the MPI site The residential well is downgradient of the site (see Table 3-1 for addresses of groundwater sampling locations)

The residential well sample was obtained from an outlet that bypassed water treatment systems and storage tanks Water was allowed to discharge from the outlet for 15 minutes before the sample was collected to ensure that the sample source had been purged of standing water (E & E 1987) In accordance with U S EPA quality assurance/quality



SOURCE. USGS Trenton OH Quadrangle 7 5 Minute Series 1966, photorevised 1974, Middletown OH Quadrangle 7 5 Minute Series 1959 photorevised 1981.

FIGURE 3-3 GROUNDWATER SAMPLING LOCATIONS

Table 3-1

ADDRESSES OF
GROUNDWATER SAMPLING LOCATIONS

Sample	Address
RW1 (and Duplicate)	400 East State Street Trenton, OH 45067
RW2	21 East State Street Trenton, OH 45067
RW3	307 Ohio Avenue Trenton, OH 45067

control requirements, a duplicate groundwater sample and a field blank sample were collected The field blank sample was prepared from distilled water The duplicate sample was collected at location RW1

As directed by U S EPA, all residential well samples were analyzed using the U S EPA CLP and the U S EPA Central Regional Laboratory (CRL) of Chicago, Illinois

4 ANALYTICAL RESULTS

This section presents results of the chemical analysis of FIT-collected soil/sediment and groundwater samples for TCL compounds and TAL analytes All samples were analyzed for volatile organics, semivolatile organics, pesticides/polychlorinated biphenyls (PCBs), metals, and cyanide Complete chemical analysis results of FIT-collected soil/sediment and groundwater samples are provided in Tables 4-1 and 4-2

Quantitation/detection limits used in the analysis of soil/sediment and groundwater samples are provided in Appendix D

The analytical data for the chemical analysis of FIT-collected samples for this SSI have been reviewed under the direction of U S EPA for validity, the review has been approved by U S EPA The analytical data have also been reviewed by FIT for usability Any additions, deletions, or changes resulting from review of the data have been incorporated in the chemical analysis results tables presented in this section

The chemical analysis results of the semivolatile organic portion of groundwater sample RW3 are unusable due to a major violation of quality control protocol In addition, the chemical analysis results for bis(2-ethylhexyl)phthalate for groundwater samples RW1 through RW3 are unusable due to a major violation of quality control protocol

Table 4-1

RESULTS OF CHEMICAL ANALYSIS OF

FIT-COLLECTED SOIL/SEDIMENT SAMPLES

Sample Collection Information and Parameters	Sample Number S1	S2	S3	S4	S5	S6
Date	10/15/91	10/15/91	10/15/91	10/15/91	10/15/91	10/15/91
Time	1310	1415	1515	1525	1600	1615
CLP Organic Traffic Report Number	EKX77	EKX78	EKX79	EKX80	EKX81	EKX82
CLP Inorganic Traffic Report Number	MEXM77	MEXM78	MEXM79	MEXM80	MEXM81	MEXM82
Compound Detected (values in µg/kg)						
Volatile Organics						
methylene chloride	25J	30J	15J	19J	—	62J
acetone	—	—	16	25	—	—
toluene	11	—	—	—	7	—
Semivolatile Organics						
phenanthrene	—	—	—	—	—	1 200J
anthracene	—	—	—	—	—	180J
fluoranthene	—	—	—	—	—	2 500J
pyrene	—	—	—	—	—	2 000J
benzo[a]anthracene	—	—	—	—	—	960J
chrysene	—	—	—	—	—	1 400J
bis(2-ethylhexyl)phthalate	—	—	—	—	2 200J	110J
benzo[b]fluoranthene	—	—	—	—	—	1 500J
benzo[k]fluoranthene	—	—	—	—	—	1 100J
benzo[a]pyrene	—	—	—	—	—	1 200J
indeno[1 2 3-cd]pyrene	—	—	—	—	—	910J
benzo[g h i]perylene	—	—	—	—	—	730J
Analyte Detected (values in mg/kg)						
aluminum	14 900	8 460	3 600	9 840	14 700	4 480
antimony	14 6BNJ	28 4NJ	R	21 1NJ	33 8NJ	R

Table 4-1 (Cont)

Sample Collection Information and Parameters	Sample Number S1	S2	S3	S4	S5	S6
arsenic	8 9	5 6	2 3B	6 1	4 4	2 8MJ
barium	68 9	51 1	22 8B	76 4	2 410	110
beryllium	0 61B	0 35B	—	0 59B	—	0 26B
cadmium	—	—	—	—	0 48BNJ	—
calcium	15 900EJ	73 200EJ	103 000EJ	24 100EJ	119 000EJ	22 600EJ
chromium	20 9	12	6 6	14 3	33 8	8 4
cobalt	8 9B	8 6B	7 4B	10 1B	10B	5BJ
copper	51 4	24 2	16 1	24 1	76 4	19 8
iron	20 800EJ	12 800EJ	6 560EJ	15 300EJ	10 500EJ	6 630EJ
lead	24 5	22 4WJ	13 2J	28 8J	18 2WJ	28 7
magnesium	9 120	29 900	38 400	11 200	37 200	3 630
manganese	526	422	206	448	925	490
mercury	—	0 13	—	0 24	—	—
nickel	23 6	12 8	3 2B	11 4	25 3	4 8B
potassium	912B	785B	584B	958B	400B	977B
sodium	240B	201B	258B	269B	232B	167B
vanadium	27 7	18 4	9 6B	24	12 7	10 4B
zinc	65 5	52 3	45 1	86 6	308	75 9

— Not detected

Table 4-1 (Cont)

COMPOUND QUALIFIER	DEFINITION	INTERPRETATION
J	Indicates an estimated value	Compound value may be semiquantitative

ANALYTE QUALIFIERS	DEFINITION	INTERPRETATION
E	Estimated or not reported due to interference See laboratory narrative	Analyte or element was not detected or value may be semiquantitative
N	Spike recoveries outside QC protocols which indicates a possible matrix problem Data may be biased high or low See spike results and laboratory narrative	Value may be quantitative or semi-quantitative
B	Value is real but is above instrument DL and below CRDL	Value may be quantitative or semi-quantitative
J	Value is above CRDL and is an estimated value because of a QC protocol	Value may be semiquantitative
M	Duplicate injection precision not met	Value may be semiquantitative
W	Post-digestion spike for furnace AA analysis is out of control limits (35-115%) while sample absorbance is <50% of spike absorbance	Value may be semiquantitative
R	Results are unusable due to a major violation of QC protocols	Analyte value is not usable

Table 4-2
RESULTS OF CHEMICAL ANALYSIS OF
FIT-COLLECTED GROUNDWATER SAMPLES

Sample Collection Information and Parameters	Sample Number RW1	Duplicate	RW2	RW3	Blank
Date	10/16/91	10/16/91	10/16/91	10/16/91	10/16/91
Time	1130	1130	1245	1350	1045
CRL Log Number	91FT27S45	91FT27D45	91FT27S46	91FT27S47	91FT03R59
CLP Inorganic Traffic Report Number	MEKM83	MEKM87	MEKM84	MEKM85	MEKM86
Temperature (°C)	17 39	17 39	18 06	19 17	18 33
Specific Conductivity (µmhos/cm)	771	771	811	853	0
pH	7 04	7 04	7 25	7 05	7 0
Compound Detected (values in µg/L)					
Volatile Organics					
methylene chloride	2	2	—	—	—
tetrachloroethene	—	—	—	2	—
Semivolatile Organics					
diethylphthalate	1	1	—	R	—
Analyte Detected (values in µg/L)					
aluminum	—	—	58 3	46 8B	—
barium	109	109	107	111	—
calcium	98 200	100 000	97 100	101 000	139B
magnesium	31 700	32 100	32 500	33 800	—
potassium	1 790B	1 850B	2 900	2 020	—
sodium	14 800	14 600	13 200	18 300	—
thallium	1 7BJ	4J	—	—	—
zinc	23 6J	—	41 8J	84 2	—

— Not detected

Table 4-2 (Cont)

COMPOUND QUALIFIER	DEFINITION	INTERPRETATION
R	Results are unusable due to a major violation of QC protocol	Compound value is not usable

ANALYTE QUALIFIERS	DEFINITION	INTERPRETATION
B	Value is real but is above instrument DL and below CRDL	Value may be quantitative or semi-quantitative
J	Value is above CRDL and is an estimated value because of a QC protocol	Value may be semiquantitative

5 DISCUSSION OF MIGRATION PATHWAYS

5 1 INTRODUCTION

This section presents discussions of data and information pertaining to potential migration pathways and targets of TCL compounds and TAL analytes that are possibly attributable to the MPI site

The five migration pathways of concern discussed are groundwater, surface water, air, fire and explosion, and direct contact

5 2 GROUNDWATER

No TCL compounds or TAL analytes were detected above background in the groundwater samples TCL compounds and TAL analytes were detected, however, at concentrations above background in the on-site soil/sediment samples, including bis(2-ethylhexyl)phthalate (2,200J µg/kg) in sample S5 and mercury (0 13 µg/kg and 0 24 mg/kg) in samples S2 and S4, respectively (see Table 4-1 for definition and interpretation of qualifier)

The TCL compounds and TAL analytes detected at levels above background in on-site soil/sediment samples may be attributable to the site based on the following information

- Sample S2 was collected from an area that may have been the location of a former lagoon

- Sample S5 was collected from stained soils around empty drums that were observed lying on their sides

- Sample S4 was collected from the on-site lagoon

A potential exists for TCL compounds and TAL analytes to migrate from the site to groundwater in the vicinity of the site This potential is based on the following information

- TCL compounds and TAL analytes were detected above background levels in on-site soil/sediment samples

- Mercury was detected in samples S2 and S4 Sample S2 was was collected from an area that may have been the location of a former lagoon Sample S4 was collected from the edge of the active lagoon Neither the previous nor the existing lagoon were lined

The potential for TCL compounds and TAL analytes to migrate from the site to groundwater also exists because of the geology of the site area The geology of the site area consists of Pleistocene glacial deposits overlying sedimentary bedrock The glacial deposits consist of outwash sands and gravel containing discontinuous clay lenses The glacial deposits range in thickness from 22 to 80 feet in the site area The bedrock, as indicated by area well logs, is the Ordovician Maysville Shale This shale is present at 22 feet below ground level directly south of the site and at 33 feet below ground level east of the site

Well logs of the site area show that area wells draw from the Great Miami Buried Valley Aquifer system, which consists of outwash sands and gravel (see Appendix E for well logs of the area of the site) This sole source aquifer is located at depths ranging from 43 to 76 feet This aquifer constitutes the aquifer of concern (AOC) Based on area well logs, depth to the AOC is approximately 43 feet The well nearest to the MPI site is approximately 800 feet north of the site

Most of the persons within a 3-mile radius of the MPI site are served by the Trenton municipal well system, which serves those persons living within the Trenton city limits, as well as approximately 100 houses directly outside of the city limits Three well fields make

up the municipal water system The north well field is located approximately 800 feet north of the MPI site The remaining two well fields are located approximately 6/10 miles southwest of the MPI site The city rotates use of the municipal well fields The depths of the Trenton wells are not known (Whitt 1991)

The potential target population for groundwater contamination within a 3-mile radius of the site is approximately 6,600 persons This population includes the approximately 6,600 persons served by the Trenton municipal system (Thaler 1991, Whitt 1990, 1990a, 1991)

5 3 SURFACE WATER

There is a potential for TCL compounds and TAL analytes detected on-site to migrate from the MPI site to the Great Miami River However, FIT believes this potential is limited based upon the following information

- FIT did not observe any surface water runoff pathways or routes
- The Great Miami River is located between 1/4 mile and 1/2 mile east of the site
- The intervening terrain between the site and the Great Miami River is flat, and both residential and agricultural land lies between the site and the river

There are no surface water intakes in the Great Miami River within 3 miles downstream of the site The Great Miami River is used primarily for recreational purposes

5 4 AIR

A release of TCL compounds or TAL analytes to the air was not documented during the SSI of the MPI site During the reconnaissance inspection, FIT site-entry instruments (OVA 128, radiation monitor, and

hydrogen cyanide monitor) did not detect levels that deviated from background concentrations at the site In accordance with the U S EPA-approved work plan, further air monitoring was not conducted by FIT

A limited potential does exist for TCL compounds and TAL analytes to migrate from the site via windblown particulates, based on the following information

- TCL compounds and TAL analytes were detected above background in on-site soil samples
- The site is not adequately vegetated, a condition which is conducive to airborne particulates

The population within a 4-mile radius of the site potentially affected by a release of TCL compounds and TAL analytes to the air is approximately 30,046 persons This population was calculated by counting houses within a 4-mile radius site on United States Geological Survey (USGS) topographic maps (USGS 1959, 1961, 1965, 1966) and multiplying this number by the persons-per-household value of 2 81 for Butler County (U S Bureau of the Census 1982)

5 5 FIRE AND EXPLOSION

According to federal, state, and local file information reviewed by FIT, and an interview with Kenny Archberger, Fire Chief, Trenton Volunteer Fire Department, no documentation exists of an incident of fire or explosion at the site (Archberger 1990) According to FIT observations and site-entry equipment readings, no potential for fire or explosion existed at the site at the time of the SSI

5 6 DIRECT CONTACT

According to federal, state, and local file information reviewed by FIT, observations made during the SSI, and an interview with site representatives, no incidents of direct contact with TCL compounds or TAL analytes at the MPI site have been documented

A limited potential exists for the public to come into direct contact with TCL compounds and TAL analytes detected at the MPI site, based on th following information

- The site is not completely fenced
- A guard house is located on-site, however, FIT did not observe a guard on duty during the time of the FIT SSI
- The TCL compound bis(2-ethylhexyl)phthalate, which was the only compound detected above background in surface soil samples, was collected on-site

The population within a 1-mile radius of the site potentially affected through direct contact with TCL compounds and TAL analytes at the site is approximately 4,157 persons This population was calculated by counting houses within a 1-mile radius of the site on USGS topographic maps (USGS 1959, 1966) and multiplying this number by a persons-per-household value of 2 81 for Butler County (U S Bureau of the Census 1982) Magnode Corporation employs 155 persons

6 REFERENCES

Adams, Johnie, 1989, Vice President, Manufacturing, Magnode Corporation, letter, to Kathy Fox, Solid and Hazardous Waste Management Division, OEPA, Re violation correction

Adams, Johnie, Arnold Hurst, Arlie Fraley, and Kenneth A Pendleton, October 15, 1990, Vice President of Manufacturing, Manufacturing Engineer, Plant Engineer, respectively, of Magnode Corporation, and President, K A Pendleton Company, Inc , site representative interview, conducted by Mary Tierney of E & E

Archberger, Kenny, May 10, 1990, Fire Chief, Trenton Volunteer Fire Department, Trenton, Ohio, contacted by Casey Lawal of E & E

E & E, Quality Assurance Project Plan Region V FIT Conducted Site Inspections, Chicago, Illinois

Picard, Daniel, 1990, attorney, Frost and Jacobs, letter, to Plant President, Magnode Corporation, Re acquisition of Trenton property

Thaler, David, April 24, 1991, Water Supervisor, city of Middletown, Ohio, telephone conversation, contacted by Patrick Soderberg of E & E

U S Bureau of the Census, 1982, 1980 Census of Population, Characteristics of the Population, General Population Characteristics, Ohio, Washington, D C

U S EPA, September 12, 1985, Potential Hazardous Waste Site Preliminary Assessment, for the MPI site, U S EPA ID OHD004232823, prepared by Cynthia Pugh of E & E

_____, February 12, 1988, Office of Solid Waste and Emergency Response, Pre-Remedial Strategy for Implementing SARA, Directive number 9345 2-01, Washington, D C

USGS, 1959, photorevised 1981, Middletown, Ohio Quadrangle, 7 5 Minute Series 1 24,000

_____, 1961, West Elkton, Ohio Quadrangle, 7 5 Minute Series 1 24,000

_____, 1965, photorevised 1974, Hamilton, Ohio Quadrangle, 7 5 Minute Series 1 24,000

_____, 1966, photorevised 1971, Trenton, Ohio Quadrangle, 7 5 Minute Series 1 24,000

Whitt, Freelan, April 27, 1990, Water Supervisor, city of Trenton, Ohio, telephone conversation, contacted by Casey Lawal of E & E

_____, May 7, 1990a, Water Supervisor, city of Trenton, Ohio, telephone conversation, contacted by Casey Lawal of E & E

_____, April 24, 1991, Water Supervisor, city of Trenton, Ohio, telephone conversation, contacted by Patrick Soderberg of E & E

6916 8

A

APPENDIX A

SITE 4-MILE RADIUS MAP

B

APPENDIX B

U S EPA FORM 2070-13

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 SITE LOCATION AND INSPECTION INFORMATION

EPA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CH	D004232823

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO. OR SPECIFIC LOCATION IDENTIFIER				
MAGNODE PRODUCTS INCORPORATED	400 E STATE ST.				
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 COUNTY**	**07 COUNTY CODE**	**08 CONG DIST**
TRENTON	OH	45067	BUTLER	017	8

09 COORDINATES LATITUDE 39° 29 00 0 LONGITUDE 084° 26' 59 0"

10 TYPE OF OWNERSHIP (Check one)
☒ A. PRIVATE ☐ B. FEDERAL _____ ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION: 10 15 90 (MONTH DAY YEAR)

02 SITE STATUS: ☒ ACTIVE ☐ INACTIVE

03 YEARS OF OPERATION: ~1952 (BEGINNING YEAR) | CURRENT (ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)
☐ A. EPA ☒ B. EPA CONTRACTOR Ecology & Environment (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☐ G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO
MARY TERNEY	BIOLOGIST	ECOLOGY & ENVIRONMENT	(312) 663 9415
09 OTHER INSPECTORS	**10 TITLE**	**11 ORGANIZATION**	**12 TELEPHONE NO**
MIKE WALTERS	GEOGRAPHER	ECOLOGY & ENVIRONMENT	(312) 663 9415
PHIL RICHARDS	NATURAL WILDLIFE MANAGER	ECOLOGY & ENVIRONMENT	(312) 663 9415
DAVE BLY	GEOLOGIST	ECOLOGY & ENVIRONMENT	(312) 663 9415
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
JOHN L. ADAMS	VICE PRES SECRETARY MANUFACTURING	400 E STATE ST. TRENTON OH 45067	(513) 988 6351
ARNOLD U HUZZE	MANUFACTURING ENGINEER	400 E STATE ST TRENTON, OH 45067	(513) 988 6351
ARLIE FRALEY	PLANT ENGINEER	400 E STATE ST TRENTON, OH 45067	(513) 988 6351
KENNETH PENDLETON	PRESIDENT K.A. PENDLETON CO INC	10869 SHERMAN RD CINCINNATI, OH 45246	(513) 563 2566
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	10:35 AM	CLEAR SKY, WARM ~70° F

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
JEANNE GRIFFON	U.S. EPA	(312) 886 3009

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
PATRICK J SODERBERG	U.S. EPA	ECOLOGY & ENVIRONMENT	(312) 663-9415	4 12 91 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-89)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
OH	D004232823

II. WASTE STATES QUANTITIES AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- [X] A SOLID
- [X] B POWDER, FINES
- [ ] C SLUDGE
- [ ] D OTHER (Specify) _____
- [ ] E SLURRY
- [X] F LIQUID
- [ ] G GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS: _____
CUBIC YARDS: UNKNOWN
NO OF DRUMS: _____

03 WASTE CHARACTERISTICS (Check all that apply)

- [X] A TOXIC
- [ ] B CORROSIVE
- [ ] C RADIOACTIVE
- [X] D PERSISTENT
- [ ] E SOLUBLE
- [ ] F INFECTIOUS
- [ ] G FLAMMABLE
- [ ] H IGNITABLE
- [ ] I HIGHLY VOLATILE
- [ ] J EXPLOSIVE
- [ ] K REACTIVE
- [ ] L INCOMPATIBLE
- [ ] M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE	UNKNOWN		
SOL	SOLVENTS	UNKNOWN		
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	UNKNOWN		
IOC	INORGANIC CHEMICALS	UNKNOWN		
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	UNKNOWN		

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	SEE TABLE 4-1, 4-2 OF NARRATIVE				

V. FEEDSTOCKS (See Appendix for CAS Numbers) UNKNOWN

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

SSI OF MAGNODE PRODUCTS INCORPORATED
STATE AND FIT FILE INFORMATION, REGION 5

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
OH	D004232832

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) ■ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 6,600
04 NARRATIVE DESCRIPTION
SEE SUBSECTION 5.2 IN NARRATIVE

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
SEE SUBSECTION 5.3 IN NARRATIVE

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
SEE SUBSECTION 5.4 IN NARRATIVE

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
SEE SECTION 5.5 IN NARRATIVE

01 ☒ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE _____) ■ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 2119
04 NARRATIVE DESCRIPTION
SEE SUBSECTION 5.6 IN NARRATIVE

01 ☒ F. CONTAMINATION OF SOIL — 02 ■ OBSERVED (DATE 10 15 90) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 7.3 (Acres)
04 NARRATIVE DESCRIPTION
SEE TABLE 4-1 AND SUBSECTION 5.2

01 ☒ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) ■ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 6,600
04 NARRATIVE DESCRIPTION
SEE SUBSECTION 5.2 IN NARRATIVE

01 ☒ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE _____) ■ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: 155
04 NARRATIVE DESCRIPTION
SEE SUBSECTION 5.6

01 ☒ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE _____) ■ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 6,600
04 NARRATIVE DESCRIPTION
SEE SUBSECTION 5.2

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
04	D004232823

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

POTENTIAL EXISTS FOR DAMAGE TO SURROUNDING FLORA DUE TO TCL COMPOUNDS/TAL ANALYTES FOUND ON SITE

01 ☒ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

POTENTIAL DAMAGE TO FAUNA EXISTS IF THEY WERE TO COME INTO CONTACT OR INGEST TCL COMPOUNDS & TAL ANALYTES FOUND ON SITE

01 ☒ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

LOCAL FAUNA WHICH MAY POTENTIALLY COME INTO CONTACT WITH TCL COMPOUNDS OR TAL ANALYTES COULD INITIATE A FOOD CHAIN CONTAMINATION

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 ☒ OBSERVED (DATE 10 5 91) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 6,600 — 04 NARRATIVE DESCRIPTION

MERCURY AT LEVELS ABOVE BACKGROUND LEVELS FOUND IN LAGOON

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

NONE OBSERVED OR EXPECTED

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

NONE OBSERVED OR EXPECTED

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

NONE

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

NONE

III. TOTAL POPULATION POTENTIALLY AFFECTED: 6,600

IV. COMMENTS

NONE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

SSI OF MAGNOOS PRODUCTS INCORPORATED
STATE AND FIT FILE INFORMATION, REGION 5

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
04	DD042328323

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☒ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☒ A. SURFACE IMPOUNDMENT	ACTIVE LAGOON	40' x 100' ~10 FT DEEP
☐ B. PILES		
☒ C. DRUMS, ABOVE GROUND	≈50	
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☒ I. OTHER (Specify) FORMER LAGOONS - NOW FILLED IN	AMOUNT UNKNOWN	

04 TREATMENT (Check all that apply)	05 OTHER
N/A	☒ A. BUILDINGS ON SITE: 4
☐ A. INCENERATION	
☐ B. UNDERGROUND INJECTION	
☐ C. CHEMICAL/PHYSICAL	
☐ D. BIOLOGICAL	
☐ E. WASTE OIL PROCESSING	06 AREA OF SITE: 73 (Acres)
☐ F. SOLVENT RECOVERY	
☐ G. OTHER RECYCLING/RECOVERY	
☐ H. OTHER (Specify)	

07 COMMENTS

NONE

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

- TCL COMPOUNDS AND TAL ANALYTES WERE DETECTED IN ON-SITE SOILS WHERE NO LINER WAS PRESENT. LAGOONS 3 INCLUDED WITH NO DIKES OR BERMS
SEVERAL EMPTY DRUMS WERE LYING ON THEIR SIDES ALONG THE NORTHWEST FENCE LINE

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☒ YES ☐ NO

02 COMMENTS

SITE WAS FENCED ON 3 SIDES ONLY

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

SSI OF MALLINCKRODT PRODUCTS INCORPORATED SITE
STATE AND FIT FILE INFORMATION, REGION 5

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 WATER DEMOGRAPHIC AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
OH	D004232823

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL
COMMUNITY	A ☐	B ☒
NON-COMMUNITY	C ☐	D ☒

02 STATUS

	ENDANGERED	AFFECTED	MONITORED
COMMUNITY	A ☐	B ☐	C ☒
NON-COMMUNITY	D ☐	E ☐	F ☐

03 DISTANCE TO SITE

A. ~80 ft (mi)
B. ~1000 ft (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☒ A. ONLY SOURCE FOR DRINKING
☐ B DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available)
☐ C COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available)
☐ D NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 6,600

03 DISTANCE TO NEAREST DRINKING WATER WELL 550 800 ft. (mi)

04 DEPTH TO GROUNDWATER ~43 (ft)

05 DIRECTION OF GROUNDWATER FLOW South and East

06 DEPTH TO AQUIFER OF CONCERN ~43 (ft)

07 POTENTIAL YIELD OF AQUIFER Unknown (gpd)

08 SOLE SOURCE AQUIFER ☒ YES ☐ NO

09 DESCRIPTION OF WELLS (Including usage, depth, and location relative to population and buildings)

Three well fields serve the City of Trenton. All three are within a quarter mile of residential areas of Trenton. All the wells draw from the Great Miami Buried Valley Aq for system. Population outside of Trenton Corporate Boundaries [illegible] several [illegible] draw from private wells

10 RECHARGE AREA

☒ YES
☐ NO

COMMENTS Raw water percolate through sand & gravel to aquifer of concern.

11 DISCHARGE AREA

☐ YES
☒ NO

COMMENTS None

IV SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION, DRINKING WATER SOURCE
☐ B IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES
☐ C COMMERCIAL, INDUSTRIAL
☐ D NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME	AFFECTED	DISTANCE TO SITE
None	☐	(mi)
	☐	(mi)
	☐	(mi)

V DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 4157 NO. OF PERSONS	B. 5798 NO. OF PERSONS	C. 7557 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION ~100 ft (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE 2063

04 DISTANCE TO NEAREST OFF-SITE BUILDING ~100 feet (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

Moderately Populated - Rural

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 WATER DEMOGRAPHIC AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE: 04 | 02 SITE NUMBER: P004232823

VI ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. 10^{-6} – 10^{-8} cm/sec ☐ B 10^{-4} – 10^{-6} cm/sec ☐ C 10^{-4} – 10^{-3} cm/sec ■ D GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

■ A IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B RELATIVELY IMPERMEABLE (10^{-4} – 10^{-6} cm/sec) ☐ C RELATIVELY PERMEABLE (10^{-2} – 10^{-4} cm/sec) ☐ D VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
33 (ft)	UNKNOWN (ft)	UNKNOWN	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
5.81 (in)	2.5 (in)	<3 %	UNKNOWN	<3 %

09 FLOOD POTENTIAL
SITE IS IN UNKNOWN YEAR FLOODPLAIN

10
N/A ☐ SITE IS ON BARRIER ISLAND COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE	OTHER
A. NONE (mi)	B. _____ (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)
N (mi)
ENDANGERED SPECIES. UNKNOWN

13 LAND USE IN VICINITY

DISTANCE TO: COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS FORESTS OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AG LAND
A. <0.5 (mi)	B. <25 (mi)	C. UNKNOWN (mi)	D. _____ (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

SEE SITE DESCRIPTION 22

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

STATE AND FIT FILE INFORMATION, REGION 5

EPA FORM 2070-13 (7-81)

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION
01 STATE: OH | 02 SITE NUMBER: OOO4232823

II. SAMPLES TAKEN — SEE NARRATIVE SUBSECTION 3 4

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO		03 ESTIMATED DATE RESULTS AVAILABLE
		TCL COMPOUNDS	TAL METALS	
GROUNDWATER	3	US EPA CENTRAL REGIONAL LAB 536 S CLARK ST CHICAGO IL, 60605	ETS ANALYTICAL SERVICES 2160 HOUSTON RD SALEM, VA 551	AVAILABLE
SURFACE WATER				
WASTE				
AIR				
RUNOFF				
SPILL				
		TCL COMPOUNDS	TAL METALS	
SOIL	6	SWICK 1101 WEST ALBANY SUITE C BROKEN ARROW, OK 74012	NET ENVIRONMENTAL TEST BARTLETT S.E. 420 W BARLETT RD BARTLETT, IL 60103	AVAILABLE
VEGETATION				
OTHER				

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
OVA 128	NO READINGS ABOVE BACKGROUND
EXPLOSIMETER	NO READINGS ABOVE BACKGROUND
O_2 METER	NOTHING OUTSIDE NORMAL RANGE
RADIATION ALERT H-DROGEN	NO READINGS ABOVE BACKGROUND
GAMMA DETECTOR	NO READINGS ON SITE

IV. PHOTOGRAPHS AND MAPS

01 TYPE ■ GROUND □ AERIAL

02 IN CUSTODY OF ECOLOGY & ENVIRONMENT (Name of organization or individual)

03 MAPS ■ YES □ NO

04 LOCATION OF MAPS: ECOLOGY & ENVIRONMENT 111 WEST JACKSON CHICAGO, IL 60604

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

SEE TABLE 4-2 FOR pH, CONDUCTIVITY AND TEMPERATURE OF REG WELL SAMPLED

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

STATE AND FIT FILE INFORMATION RECORDS

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 OWNER INFORMATION

I. IDENTIFICATION
01 STATE: OH | 02 SITE NUMBER: D004232823

II. CURRENT OWNER(S)

01 NAME: MAGNODE CORPORATION
02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): 400 E STATE STREET
04 SIC CODE:
05 CITY: TROTON
06 STATE: OH
07 ZIP CODE: 45067

01 NAME:
02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.):
04 SIC CODE:
05 CITY:
06 STATE:
07 ZIP CODE:

01 NAME:
02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.):
04 SIC CODE:
05 CITY:
06 STATE:
07 ZIP CODE:

01 NAME:
02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.):
04 SIC CODE:
05 CITY:
06 STATE:
07 ZIP CODE:

PARENT COMPANY (if applicable)

08 NAME: N/A
09 D+B NUMBER:
10 STREET ADDRESS (P.O. Box, RFD #, etc.):
11 SIC CODE:
12 CITY:
13 STATE:
14 ZIP CODE:

08 NAME:
09 D+B NUMBER:
10 STREET ADDRESS (P.O. Box, RFD #, etc.):
11 SIC CODE:
12 CITY:
13 STATE:
14 ZIP CODE:

08 NAME:
09 D+B NUMBER:
10 STREET ADDRESS (P.O. Box, RFD #, etc.):
11 SIC CODE:
12 CITY:
13 STATE:
14 ZIP CODE:

08 NAME:
09 D+B NUMBER:
10 STREET ADDRESS (P.O. Box, RFD #, etc.):
11 SIC CODE:
12 CITY:
13 STATE:
14 ZIP CODE:

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME: MAGNABOE PRODUCTS INC
02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): 400 E STATE ST.
04 SIC CODE:
05 CITY: TROTON
06 STATE: OH
07 ZIP CODE: 45067

01 NAME:
02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.):
04 SIC CODE:
05 CITY:
06 STATE:
07 ZIP CODE:

01 NAME:
02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.):
04 SIC CODE:
05 CITY:
06 STATE:
07 ZIP CODE:

01 NAME:
02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.):
04 SIC CODE:
05 CITY:
06 STATE:
07 ZIP CODE:

IV. REALTY OWNER(S) (If applicable, list most recent first)

01 NAME: N/A
02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.):
04 SIC CODE:
05 CITY:
06 STATE:
07 ZIP CODE:

01 NAME:
02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.):
04 SIC CODE:
05 CITY:
06 STATE:
07 ZIP CODE:

01 NAME:
02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.):
04 SIC CODE:
05 CITY:
06 STATE:
07 ZIP CODE:

01 NAME:
02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.):
04 SIC CODE:
05 CITY:
06 STATE:
07 ZIP CODE:

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

STATE AND FIT FILE INFORMATION, REGION 5

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 OPERATOR INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
OH	D004232823

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
SAME AS OWNER	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER
N/A	

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME	02 D+B NUMBER
SAME AS PREVIOUS OWNER	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER
N/A	

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

STATE AND FIT FILE INFORMATION, REGION 5

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
OH	D004232823

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
SAME AS OWNER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
NONE			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
UNKNOWN			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

STATE AND FIT FILE INFORMATION, REGION 5

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
OH	D004282823

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ D. SPILLED MATERIAL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ E. CONTAMINATED SOIL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ F. WASTE REPACKAGED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ G. WASTE DISPOSED ELSEWHERE — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ H. ON SITE BURIAL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ I. IN SITU CHEMICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ J. IN SITU BIOLOGICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ K. IN SITU PHYSICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ L. ENCAPSULATION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ M. EMERGENCY WASTE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ N. CUTOFF WALLS — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ P. CUTOFF TRENCHES/SUMP — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ Q. SUBSURFACE CUTOFF WALL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 PAST RESPONSE ACTIVITIES

I. IDENTIFICATION
01 STATE: OK | 02 SITE NUMBER: OKD042282823

II. PAST RESPONSE ACTIVITIES (Continued)

01 R. BARRIER WALLS CONSTRUCTED — 02 DATE — 03 AGENCY
04 DESCRIPTION
N/A

01 S. CAPPING/COVERING — 02 DATE — 03 AGENCY
04 DESCRIPTION
N/A

01 T. BULK TANKAGE REPAIRED — 02 DATE — 03 AGENCY
04 DESCRIPTION
N/A

01 U. GROUT CURTAIN CONSTRUCTED — 02 DATE — 03 AGENCY
04 DESCRIPTION
N/A

01 V. BOTTOM SEALED — 02 DATE — 03 AGENCY
04 DESCRIPTION
N/A

01 W. GAS CONTROL — 02 DATE — 03 AGENCY
04 DESCRIPTION
N/A

01 X. FIRE CONTROL — 02 DATE — 03 AGENCY
04 DESCRIPTION
N/A

01 Y. LEACHATE TREATMENT — 02 DATE — 03 AGENCY
04 DESCRIPTION
N/A

01 Z. AREA EVACUATED — 02 DATE — 03 AGENCY
04 DESCRIPTION
N/A

01 1. ACCESS TO SITE RESTRICTED — 02 DATE — 03 AGENCY
04 DESCRIPTION
N/A

01 2. POPULATION RELOCATED — 02 DATE — 03 AGENCY
04 DESCRIPTION
N/A

01 3. OTHER REMEDIAL ACTIVITIES — 02 DATE — 03 AGENCY
04 DESCRIPTION
N/A

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

STATE AND FIT FILE INFORMATION, REGION 5

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
OH	D 004232523

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ■ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

NONE

III. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

STATE AND FIT FILE INFORMATION

C

APPENDIX C

FIT SITE PHOTOGRAPHS

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Magnode Products PAGE 1 OF 16

U.S. EPA ID: OHD004232823 TDD: F05-8912-016 PAN: FOH0500SB

DATE: 10/16/90

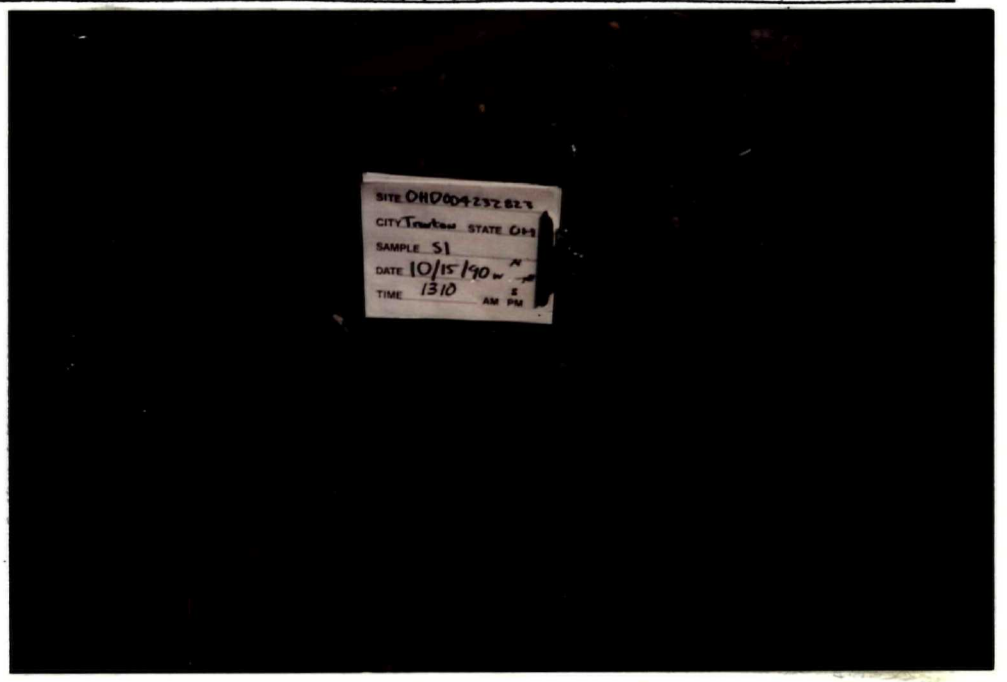
TIME: 1505

DIRECTION OF PHOTOGRAPH: East

WEATHER CONDITIONS: Clear Sky, Warm ~ 70°F

PHOTOGRAPHED BY: Mary Tierney

SAMPLE ID (if applicable): S1



DESCRIPTION: Close-up of sample S1

DATE: 10/16/90

TIME: 1505

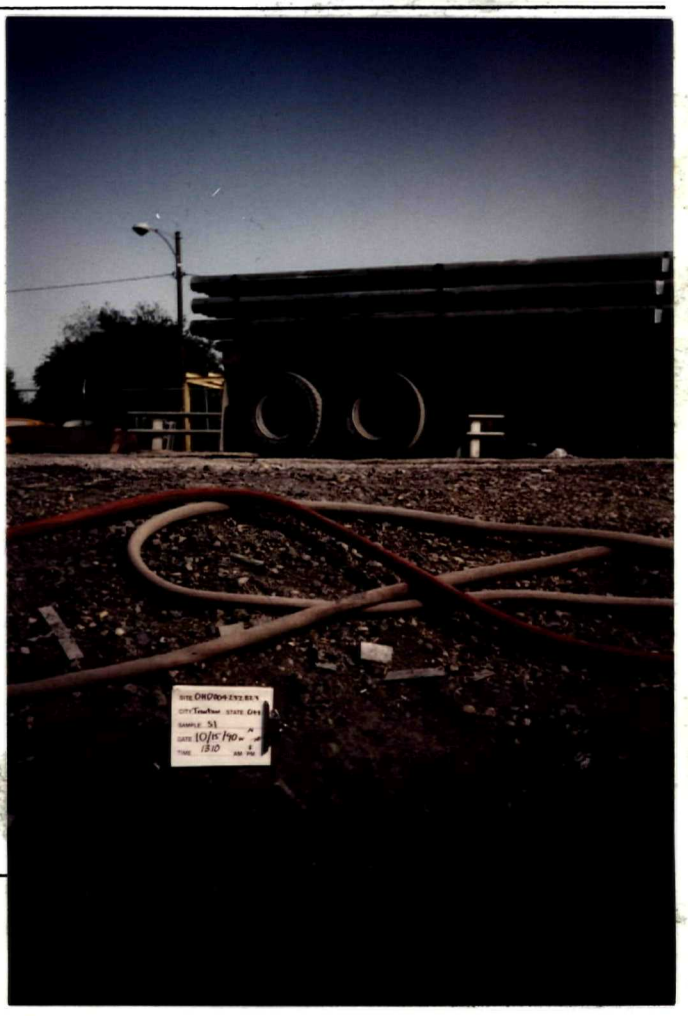
DIRECTION OF PHOTOGRAPH: East

WEATHER CONDITIONS: Clear Sky, Warm ~ 70°F

PHOTOGRAPHED BY: Mary Tierney

SAMPLE ID (if applicable): S1

DESCRIPTION: Perspective view of sample S1.



SIO11(2/25/89)

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Magnode Products PAGE 2 OF 16

U.S. EPA ID: OHD004232823 TDD: F05-8912-016 PAN: FOH0500SB

DATE: 10/16/90

TIME: 1507

DIRECTION OF PHOTOGRAPH: North

WEATHER CONDITIONS: Clear Sky, Warm ~70°F

PHOTOGRAPHED BY: Mary Tierney

SAMPLE ID (if applicable): S2

DESCRIPTION: Close-up of sample S2

DATE: 10/16/90

TIME: 1507

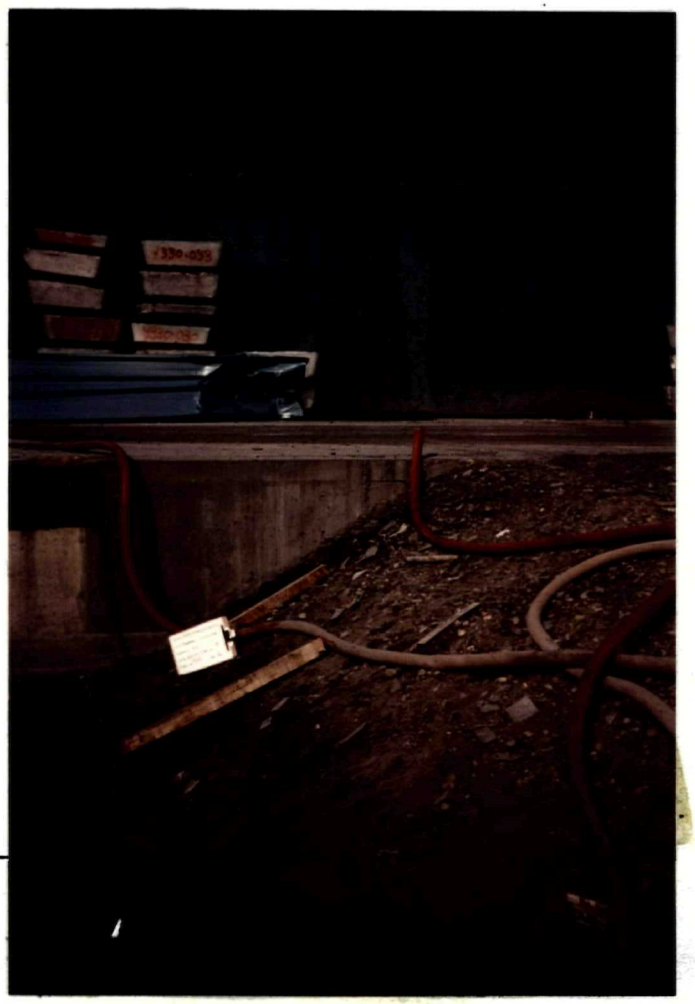
DIRECTION OF PHOTOGRAPH: North

WEATHER CONDITIONS: Clear Sky, Warm ~70°F

PHOTOGRAPHED BY: Mary Tierney

SAMPLE ID (if applicable): S2

DESCRIPTION: Perspective view of soil sample S2.



SI011(2/25/89)

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Magnode Products, PAGE 3 OF 16

U.S. EPA ID: OHD004232823 TDD: F05-8912-016 PAN: FOH0500SB

DATE: 10/16/90

TIME: 1515

DIRECTION OF PHOTOGRAPH: ESE

WEATHER CONDITIONS: Clear Sky, Warm ~ 70°F

PHOTOGRAPHED BY: Mary Tierney

SAMPLE ID (if applicable): S3

DESCRIPTION: Close-up of sample S3

DATE: 10/16/90

TIME: 1515

DIRECTION OF PHOTOGRAPH: ESE

WEATHER CONDITIONS: Clear Sky, Warm ~ 70°F DID NOT DEVELOP

PHOTOGRAPHED BY: Mary Tierney

SAMPLE ID (if applicable): S3

DESCRIPTION: Perspective view of soil sample S3

SIO11(2/25/89)

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Magnode Products, PAGE 4 OF 16

U.S. EPA ID: OHD004232823 TDD: F05-8912-016 PAN: FOH050058

DATE: 10/16/90

TIME: 1515

DIRECTION OF PHOTOGRAPH: West

WEATHER CONDITIONS: Clear Sky, Warm ~70°F

PHOTOGRAPHED BY: Mary Tierney

SAMPLE ID (if applicable): S4

DESCRIPTION: Close-up of sample S4

DATE: 10/16/90

TIME: 1515

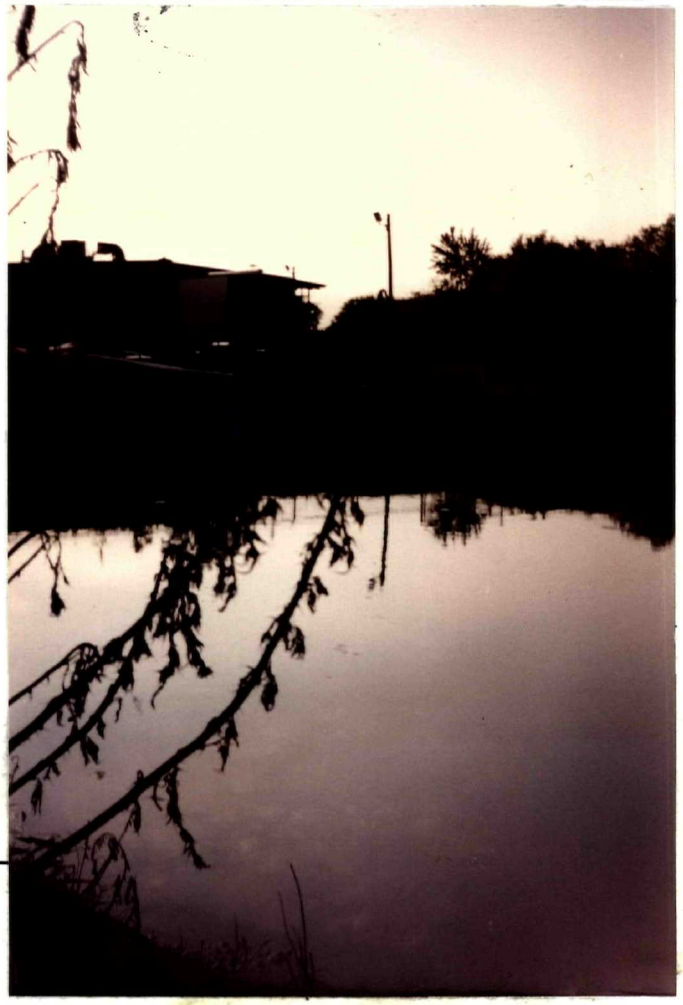
DIRECTION OF PHOTOGRAPH: West

WEATHER CONDITIONS: Clear Sky, Warm ~70°F

PHOTOGRAPHED BY: Mary Tierney

SAMPLE ID (if applicable): S4

DESCRIPTION: Perspective view of soil sample S4.



SI011(2/25/89)

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Magnode Products PAGE 5 OF 16

U.S. EPA ID: OHD004232823 TDD: F05-8912-016 PAN: FOH0500SB

DATE: 10/16/90

TIME: 1526

DIRECTION OF PHOTOGRAPH: NW

WEATHER CONDITIONS: Clear Sky, Warm ~ 70°F

PHOTOGRAPHED BY: Mary Tierney

SAMPLE ID (if applicable): SS

DESCRIPTION: Close-up of sample SS.

DATE: 10/16/90

TIME: 1526

DIRECTION OF PHOTOGRAPH: NNW

WEATHER CONDITIONS: Clear Sky, Warm ~ 70°F

PHOTOGRAPHED BY: Mary Tierney

SAMPLE ID (if applicable): SS

DESCRIPTION: Perspective view of soil sample SS.

SI011(2/25/89)

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Magnode Products, PAGE 6 OF 16

U.S. EPA ID: OHD004232823 TDD: F05-8912-016 PAN: F0H05005B

DATE: 10/16/90

TIME: 1455

DIRECTION OF PHOTOGRAPH: NE

WEATHER CONDITIONS: Clear Sky, Warm ~ 70°F

PHOTOGRAPHED BY: Mary Tierney

SAMPLE ID (if applicable): 56

DESCRIPTION: Close-up of sample 56.

DATE: 10/16/90

TIME: 1455

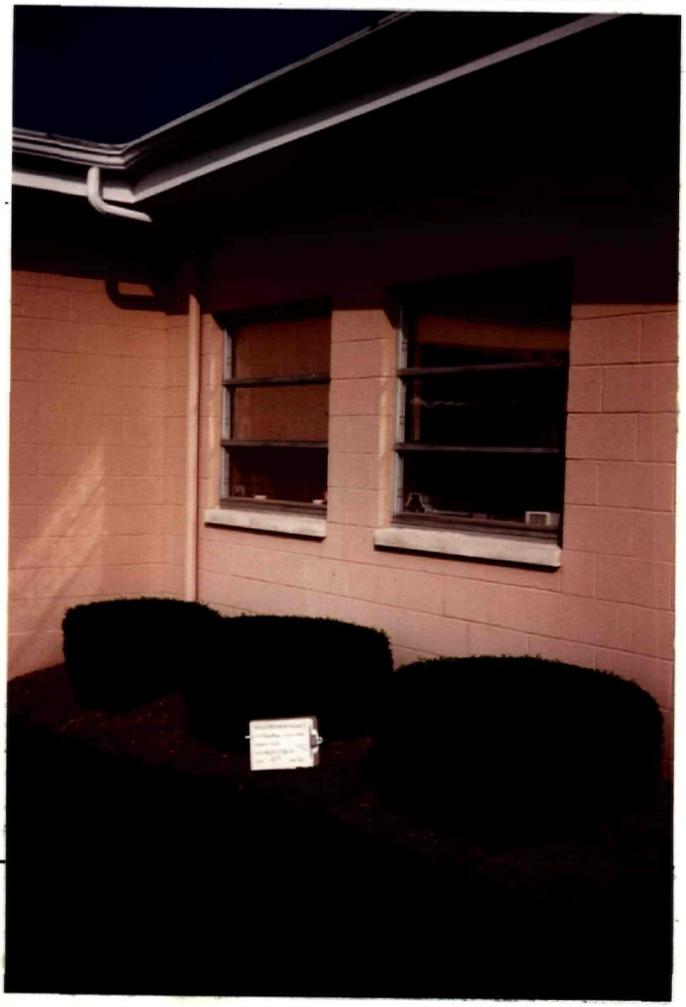
DIRECTION OF PHOTOGRAPH: NE

WEATHER CONDITIONS: Clear Sky, Warm ~70°F

PHOTOGRAPHED BY: Mary Tierney

SAMPLE ID (if applicable): 56

DESCRIPTION: Perspective view of sample 56.



SIO11(2/25/89)

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Magnode Products PAGE 7 OF 16

U.S. EPA ID: OHD004232823 TDD: F05-8912-016 PAN: F0H0500SB

DATE: 10/16/90

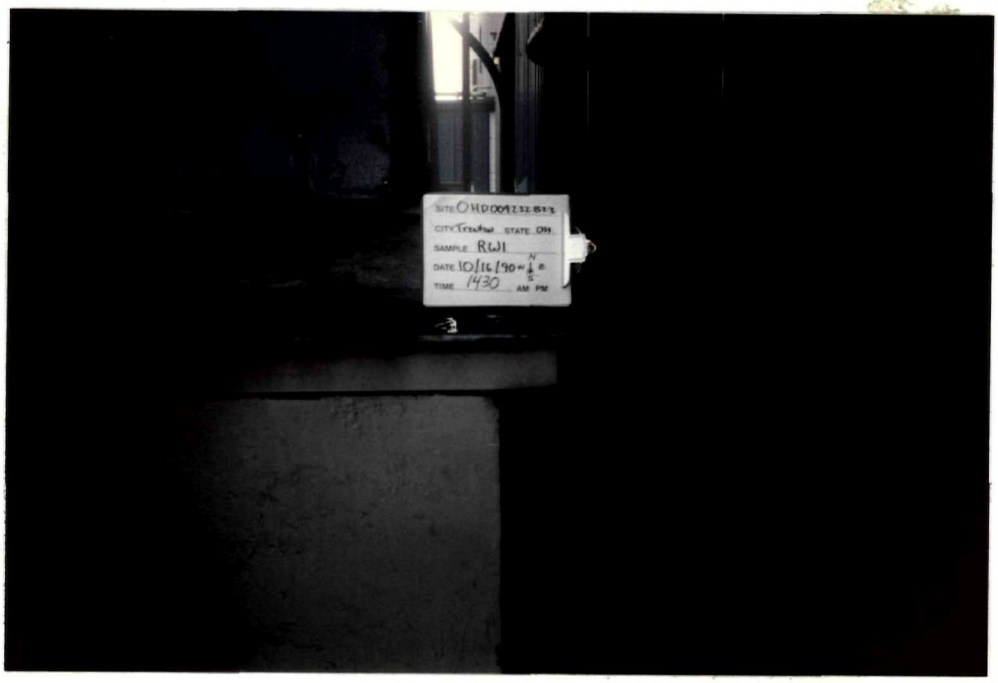
TIME: 1435

DIRECTION OF PHOTOGRAPH: South

WEATHER CONDITIONS: Clear Sky, Warm ~70°F

PHOTOGRAPHED BY: Mary Tierney

SAMPLE ID (if applicable): RW1



DESCRIPTION: Close-up view of residential well sample RW1

DATE: 10/16/90

TIME: 1435

DIRECTION OF PHOTOGRAPH: South

WEATHER CONDITIONS: Clear Sky, Warm ~70°F

PHOTOGRAPHED BY: Mary Tierney

SAMPLE ID (if applicable): RW1

DESCRIPTION: Perspective view of residential well sample RW1

SIO11(2/25/89)

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Magnode Products PAGE 8 OF 16

U.S. EPA ID: OHD004232823 TDD: F05-8912-016 PAN: F0H0500SB

DATE: 10/16/90

TIME: 1250

DIRECTION OF PHOTOGRAPH: North

Did not develop

WEATHER CONDITIONS: Clear Sky, Warm ~ 70°F

PHOTOGRAPHED BY: Mary Tierney

SAMPLE ID (if applicable): RW2

DESCRIPTION: Close-up view of residential well sample RW2

DATE: 10/16/90

TIME: 1250

DIRECTION OF PHOTOGRAPH: North

WEATHER CONDITIONS: Clear Sky Warm ~ 70°F

PHOTOGRAPHED BY: Mary Tierney

SAMPLE ID (if applicable): RW2

DESCRIPTION: Perspective view of residential well sample RW2

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Magnode Products PAGE 9 OF 16

U.S. EPA ID: OHD004232823 TDD: F05-8912-016 PAN: F0H0500SB

DATE: 10/16/90

TIME: 1355

DIRECTION OF PHOTOGRAPH: North

WEATHER CONDITIONS: Clear Sky, Warm ~ 70°F

PHOTOGRAPHED BY: Mary Tierney

SAMPLE ID (if applicable): RW3

DESCRIPTION: Close-up view of residential well sample RW3

DATE: 10/16/90

TIME: 1355

DIRECTION OF PHOTOGRAPH: North

WEATHER CONDITIONS: Clear Sky Warm ~ 70°F

PHOTOGRAPHED BY: Mary Tierney

SAMPLE ID (if applicable): RW3

DESCRIPTION: Perspective view of residential well sample RW3.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Magnode Products PAGE 10 OF 16

U.S. EPA ID: OHD004232823 TDD: F05-8912-016 PAN: F0H0500SB

DATE: 10/16/90

TIME: 1530

DIRECTION OF PHOTOGRAPH: west

WEATHER CONDITIONS: Clear Sky, Warm ~ 70°F

PHOTOGRAPHED BY: Mary Tierney

SAMPLE ID (if applicable): —

DESCRIPTION: View of front (south side) of site taken from SE corner.

DATE: 10/16/90

TIME: 1455

DIRECTION OF PHOTOGRAPH: North

WEATHER CONDITIONS: Clear Sky Warm ~ 70°F

PHOTOGRAPHED BY: Mary Tierney

SAMPLE ID (if applicable): —

DESCRIPTION: Drive between Magnode offices (left) and adjacent property to the east (right). East house is in the background.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Magnode Products PAGE 11 OF 16

U.S. EPA ID: OHD004232823 TDD: F05-8912-016 PAN: F0H0500SB

DATE: 10/16/90

TIME: 1520

DIRECTION OF PHOTOGRAPH: NE

WEATHER CONDITIONS: Clear Sky, Warm ~ 70°F

PHOTOGRAPHED BY: Mary Tierney

SAMPLE ID (if applicable): -

DESCRIPTION: Drums on wooden pallets being stored northeast of quench ovens.

DATE: 10/16/90

TIME: 152

DIRECTION OF PHOTOGRAPH: W

WEATHER CONDITIONS: Clear Sky, Warm ~ 70°F

PHOTOGRAPHED BY: Mary Tierney

SAMPLE ID (if applicable): -

DESCRIPTION: Drums adjacent to north fenceline north of the cast house. Drums were standing on small patch of discolored soil.

SI011(2/25/89)

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: MAGNODE PRODUCTS PAGE 12 OF 16

U.S. EPA ID: OHD004232823 TDD: F05-8912-016 PAN: FOH0500SB

DESCRIPTION: >

DATE: > 10/16/90 TIME: > 1518 DIRECTION OF PHOTOGRAPH: > SE to NE PHOTOGRAPHED BY: > MARY TIERNEY

WEATHER CONDITIONS: > clear sky, warm, ~70°F SAMPLE ID (if applicable): > —

DESCRIPTION: > Panorama of lagoon taken from northwest edge.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: MAGNODE PRODUCTS PAGE 13 OF 16

U.S. EPA ID: OHD004232823 TDD: F05-8912-016 PAN: FOH0500SB

DATE: > 10/16/90 TIME: > 1715 DIRECTION OF PHOTOGRAPH: > SW to NW PHOTOGRAPHED BY: > MARY TIERNEY

WEATHER CONDITIONS: > clear sky, warm, ~70°F SAMPLE ID (if applicable): > —

DESCRIPTION: > Panorama of lagoon from east side. Former propane storage tank can be seen on the left.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: MAGNODE PRODUCTS PAGE 14 OF 16

U.S. EPA ID: OHD004232823 TDD: F05-8912-016 PAN: FOH0500SB

DATE: > 10/16/90 TIME: > 1500 DIRECTION OF PHOTOGRAPH: > NW to N PHOTOGRAPHED BY: > MARY TIERNEY

WEATHER CONDITIONS: > clear sky, warm, ~70°F SAMPLE ID (if applicable): > —

DESCRIPTION: > Panorama of salaried parking area on east side of site. Nitrogen tank is right of center. Aluminum scrap pile and truck loading area are to the right of nitrogen tank. Cast house is on the right.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: MAGNODE PRODUCTS PAGE 13 OF 16

U.S. EPA ID: OHD004232823 TDD: F05-8912-016 PAN: FOH0500SB

DATE: > 10/16/90 TIME: > 1535 DIRECTION OF PHOTOGRAPH: > SE PHOTOGRAPHED BY: > MARY TIERNEY

WEATHER CONDITIONS: > clear sky, warm, ~70°F SAMPLE ID (if applicable): > —

DESCRIPTION: > Panorama of NW property line (western corner of site). Taken from road north of site which leads to Trenton municipal well. Aluminum scrap temporarily stored on employee parking lot can be seen in center.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: MAGNODE PRODUCTS PAGE 7 OF 16

U.S. EPA ID: OHD004232823 TDD: F05-8912-016 PAN: FOH0500SB

DATE: > 10/16/90 TIME: > 1535 DIRECTION OF PHOTOGRAPH: > ESE to SSE PHOTOGRAPHED BY: > MARY TIERNEY

WEATHER CONDITIONS: > clear sky, warm, ~70°F SAMPLE ID (if applicable): > —

DESCRIPTION: > Panorama of northwest property line. Cast house can be seen on the left.

D

APPENDIX D

U S EPA TARGET COMPOUND LIST AND TARGET ANALYTE LIST QUANTITATION/DETECTION LIMITS

ADDENDUM A

ROUTINE ANALYTICAL SERVICES
CONTRACT REQUIRED DETECTION AND QUANTITATION LIMITS

Contract Laboratory Program
Target Compound List
Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
Chloromethane	74-87-3	10 ug/L	10 ug/Kg
Bromomethane	74-83-9	10	10
Vinyl chloride	75-01-4	10	10
Chloroethane	75-00-3	10	10
Methylene chloride	75-09-2	5	5
Acetone	67-64-1	10	5
Carbon disulfide	75-15-0	5	5
1,1-dichloroethene	75-35-4	5	5
1,1-dichloroethane	75-34-3	5	5
1,2-dichloroethene (total)	540-59-0	5	5
Chloroform	67-66-3	5	5
1,2-dichloroethane	107-06-2	5	5
2-butanone (MEK)	78-93-3	10	10
1,1,1-trichloroethane	71-55-6	5	5
Carbon tetrachloride	56-23-5	5	5
Vinyl acetate	108-05-4	10	10
Bromodichloromethane	75-27-4	5	5
1,2-dichloropropane	78-87-5	5	5
cis-1,3-dichloropropene	10061-01-5	5	5
Trichloroethene	79-01-6	5	5
Dibromochloromethane	124-48-1	5	5
1,1,2-trichloroethane	79-00-5	5	5
Benzene	71-43-2	5	5
Trans-1,3-dichloropropene	10061-02-6	5	5
Bromoform	75-25-2	5	5
4-Methyl-2-pentanone	108-10-1	10	10
2-Hexanone	591-78-6	10	10
Tetrachloroethene	127-18-4	5	5
Tolene	108-88-3	5	5
1,1,2,2-tetrachloroethane	79-34-5	5	5
Chlorobenzene	108-90-7	5	5
Ethyl benzene	100-41-4	5	5
Styrene	100-42-5	5	5
Xylenes (total)	1330-20-7	5	5

Table A
Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
Phenol	108-95-2	10 ug/L	330 ug/Kg
bis(2-Chloroethyl) ether	111-44-4	10	330
2-Chlorophenol	95-57-8	10	330
1,3-Dichlorobenzene	541-73-1	10	330
1,4-Dichlorobenzene	106-46-7	10	330
Benzyl Alcohol	100-51-6	10	330
1,2-Dichlorobenzene	95-50-1	10	330
2-Methylphenol	95-48-7	10	330
bis(2-Chloroisopropyl) ether	108-60-1	10	330
4-Methylphenol	106-44-5	10	330
N-Nitroso-di-n-dipropylamine	621-64-7	10	330
Hexachloroethane	67-72-1	10	330
Nitrobenzene	98-95-3	10	330
Isophorone	78-59-1	10	330
2-Nitrophenol	88-75-5	10	330
2,4-Dimethylphenol	105-67-9	10	330
Benzoic Acid	65-85-0	50	1600
bis(2-Chloroethoxy) methane	111-91-1	10	330
2,4-Dichlorophenol	120-83-2	10	330
1,2,4-Trichlorobenzene	120-82-1	10	330
Naphthalene	91-20-3	10	330
4-Chloroaniline	106-47-8	10	330
Hexachlorobutadiene	87-68-3	10	300
4-Chloro-3-methylphenol	59-50-7	10	330
2-Methylnaphthalene	91-57-6	10	330
Hexachlorocyclopentadiene	77-47-4	10	330
2,4,6-Trichlorophenol	88-06-2	10	330
2,4,5-Trichlorophenol	95-95-4	50	1600
2-Chloronaphthalene	91-58-7	10	330
2-Nitroaniline	88-74-4	50	1600
Dimethylphthalate	131-11-3	10	330
Acenaphthylene	208-96-8	10	330
2,6-Dinitrotoluene	606-20-2	10	330
3-Nitroaniline	99-09-2	50	1600
Acenaphthene	83-32-9	10	330
2,4-Dinitrophenol	51-28-5	50	1600
4-Nitrophenol	100-02-7	50	1600
Dibenzofuran	132-64-9	10	330
2,4-Dinitrotoluene	121-14-2	10	330
Diethylphthalate	84-66-2	10	330
4-Chlorophenyl-phenyl ether	7005-72-3	10	330

Table A
Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SLUDGE SEDIMENT
Fluorene	86-73-7	10 ug/L	330 ug/Kg
4-Nitroaniline	100-01-6	50	1600
4,6-Dinitro-2-methylphenol	534-52-1	50	1600
N-nitrosodiphenylamine	86-30-6	10	330
4-Bromophenyl-phenylether	101-55-3	10	330
Hexachlorobenzene	118-74-1	10	330
Pentachlorophenol	87-86-5	50	1600
Phenanthrene	85-01-8	10	330
Anthracene	120-12-7	10	330
Di-n-butylphthalate	84-74-2	10	330
Fluoranthene	206-44-0	10	330
Pyrene	129-00-0	10	330
Butylbenzylphthalate	85-68-7	10	330
3,3'-Dichlorobenzidine	91-94-1	20	660
Benzo(a)anthracene	56-55-3	10	330
Chrysene	218-01-9	10	330
bis(2-Ethylhexyl)phthalate	117-81-7	10	330
Di-n-octylphthalate	117-84-0	10	330
Benzo(b)fluoranthene	205-99-2	10	330
Benzo(k)fluoranthene	207-08-9	10	330
Benzo(a)pyrene	50-32-8	10	330
Indeno(1,2,3-cd)pyrene	193-39-5	10	330
Dibenz(a,h)anthracene	53-70-3	10	330
Benzo(g,h,i)perylene	191-24-2	10	330

Table A
Contract Laboratory Program
Target Compound List
Pesticide and PCB Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
alpha-BHC	319-84-6	0 05 ug/L	8 ug/Kg
beta-BHC	319-85-7	0 05	8
delta-BHC	319-86-8	0 05	8
gamma-BHC (Lindane)	58-89-9	0 05	8
Heptachlor	76-44-8	0 05	8
Aldrin	309-00-2	0 05	8
Heptachlor epoxide	1024-57-3	0 05	8
Endosulfan I	959-98-8	0 05	8
Dieldrin	60-57-1	0 10	16
4,4'-DDE	72-55-9	0 10	16
Endrin	72-20-8	0 10	16
Endosulfan II	33213-65-9	0 10	16
4,4'-DDD	72-54-8	0 10	16
Endosulfan sulfate	1031-07-8	0 10	16
4,4'-DDT	50-29-3	0 10	16
Methoxychlor (Mariate)	72-43-5	0 5	80
Endrin ketone	53494-70-5	0 10	16
alpha-Chlordane	5103-71-9	0 5	80
gamma-chlordane	5103-74-2	0.5	80
Toxaphene	8001-35-2	1 0	160
AROCLOR-1016	12674-11-2	0.5	80
AROCLOR-1221	11104-28-2	0.5	80
AROCLOR-1232	11141-16-5	0.5	80
AROCLOR-1242	53469-21-9	0 5	80
AROCLOR-1248	12672-29-6	0.5	80
AROCLOR-1254	11097-69-1	1 0	160
AROCLOR-1260	11096-82-5	1.0	160

Table A (Cont)

CONTRACT LABORATORY PROGRAM

TARGET ANALYTE LIST (TAL)

INORGANIC DETECTION LIMITS

Compound	Procedure	Detection Limits	
		Water (µg/L)	Soil Sediment Sludge (mg/kg)
aluminum	ICP	200	40
antimony	furnace	60	2 4
arsenic	furnace	10	2
barium	ICP	200	40
beryllium	ICP	5	1
cadmium	ICP	5	1
calcium	ICP	5,000	1,000
chromium	ICP	10	2
cobalt	ICP	50	10
copper	ICP	25	5
iron	ICP	100	20
lead	furnace	5	1
magnesium	ICP	5,000	1,000
manganese	ICP	15	3
mercury	cold vapor	0.2	0 008
nickel	ICP	40	8
potassium	ICP	5,000	1,000
selenium	furnace	5	1
silver	ICP	10	2
sodium	ICP	5,000	1,000
thallium	furnace	10	2
tin	ICP	40	8
vanadium	ICP	50	10
zinc	ICP	20	4
cyanide	color	10	2

3767:1

ADDENDUM C

SPECIAL ANALYTICAL SERVICES
DETECTION LIMITS

Drinking Water Samples

TABLE C
SPECIAL ANALYTICAL SERVICES DRINKING WATER
VOLATILE QUANTITATION LIMITS

PARAMETER	CAS #	DETECTION LIMIT IN REAGENT WATER
Benzene	71-43-2	1 5 ug/L
Bromodichloromethane	75-27-4	1 5
Bromoform	75-25-2	1 5
Bromomethane	74-83-9	1 5
Carbon tetrachloride	56-23-5	1 5
Chlorobenzene	108-90-7	1 5
Chloroethane	75-00-3	1 5
2-Chloroethyl vinyl ether	110-75-8	1 5
Chloroform	67-66-3	1 5
Chloromethane	74-87-3	1 5
Dibromochloromethane	124-48-1	1 5
1,1-Dichloroethane	75-34-3	1 5
1,2-Dichloroethane	107-06-2	1 5
1,1-Dichloroethene	75-35-4	1 5
Total-1,2-Dichloroethene	540-59-0	1 5
1,2-Dichloropropane	78-87-5	1 5
cis-1,3-Dichloropropene	10061-01-5	2
trans-1,3-Dichlopropropene	10061-02-6	1
Ethyl benzene	100-41-4	1 5
Methylene chloride *	75-09-2	1
1,1,2,2-Tetrachloroethane	79-34-5	1.5
Tetrachloroethene	127-18-4	1.5
Toluene *	108-88-3	1.5
1,1,1-Trichloroethane	71-55-6	1.5
1,1,2-Trichloroethane	79-00-5	1.5
Trichloroethene	79-01-6	1.5
Vinyl chloride	75-01-4	1.5
Acrolein	107-02-8	25
Acetone *	67-64-1	5
Acrylonitrile	107-13-1	25
Carbon disulfide	75-15-0	3
2-Butanone	78-93-3	5
Vinyl acetate	108-05-4	5
4-Methyl-2-pentanone	108-10-1	1.5
2-Hexanone	519-78-6	5
Styrene	100-42-5	1
Xylene (total)	1330-02-7	1.5

* Common laboratory solvents.
Blank limit is 5x method detection limit.
( ) Values in parentheses are estimates.
actual values are being determined at this time.

TABLE C (cont)
SAS DRINKING WATER
SEMIVOLATILES QUANTITATION LIMITS

PARAMETER	CAS #	DETECTION LIMIT
Aniline	62-53-3	1 5 ug/l
Bis(2-chloroethyl)ether	111-44-4	1 5
Phenol	108-95-2	2
2-Chlorophenol	95-57-8	2
1,3-Dichlorobenzene	541-73-1	2
1,4-Dichlorobenzene	106-46-7	2
1,2-Dichlorobenzene	95-50-1	2 5
Benzyl alcohol	100-51-6	2
Bis(2-chloroisopropyl)ether	39638-32-9	2 5
2-Methylphenol	95-48-7	1
Hexachloroethane	67-72-1	2
n-Nitrosodipropylamine	621-64-7	1 5
Nitrobenzene	98-95-3	2 5
4-Methylphenol	106-44-5	1
Isophorone	78-59-1	2 5
2-Nitrophenol	88-75-5	2
2,4-Dimethylphenol	105-67-9	2
Bis(2-Chloroethoxy)methane	111-91-1	2 5
2,4-Dichlorophenol	120-83-2	2
1,2,4-Trichlorobenzene	120-82-1	2
Naphthalene	91-20-3	2
4-Chloroaniline	106-47-8	2
Hexachlorobutadiene	87-68-3	2.5
Benzoic Acid	65-85-0	20
2-Methylnapthalene	91-57-6	2
4-Chloro-3-methylphenol	59-50-7	1 5
Hexachlorocyclopentadiene	77-47-4	2
2,4,6-Trichlorophenol	88-06-2	1.5
2,4,5-Trichlorophenol	95-95-4	1.5
2-Chloronapthalene	91-58-7	1.5
Acenapthylene	208-96-8	1.5
Dimethyl phthalate	131-11-3	1.5
2,6-Dinitrotoluene	606-20-2	1
Acenaphthene	83-32-9	1.5
3-Nitroaniline	99-09-2	2.5
Dibenzofuran	132-64-9	1
2,4-Dinitrophenol	51-28-5	(15)
2,4-Dinitrotoluene	121-14-2	1

TABLE C (Cont)
SAS DRINKING WATER
SEMIVOLATILE QUANTITATION LIMITS

PARAMETER	CAS #	DETECTION LIMIT
Fluorene	86-73-7	1 ug/L
4-Nitrophenol	100-02-7	1 5
4-Chlorophenyl phenyl ether	7005-72-3	1
Diethyl phthalate	84-66-2	1
4,6-Dinitro-2-methylphenol	534-52-1	(15)
1,2-Diphenylhydrazine	122-66-7	1
n-Nitrosodiphenylamine *	86-30-6	
Diphenylamine *	122-39-4	1 5
4-Nitroaniline	100-01-6	3
4-Bromophenyl-phenylether	101-55-3	1 5
Hexachlorobenzene	118-74-1	1 5
Pentachlorophenol	87-86-5	2
Phenanthrene	85-01-8	1
Anthracene	120-12-7	2 5
di-n-Butyl phthalate	84-74-2	2
Fluoranthene	206-44-0	1 5
Pyrene	129-00-0	1 5
Butyl benzyl phthalate	85-68-7	3 5
Chrysene **	218-01-9	
Benzo(A)Anthracene **	56-55-3	1 5
bis(2-ethylhexyl)phthalate	117-81-7	1
di-n-Octyl phthalate	117-84-0	1.5
Benzo(b)fluoranthene ***	205-99-2	
Benzo(k)fluoranthene ***	207-08-9	1 5
Benzo(a)pyrene	50-32-8	2
Indeno(1,2,3-cd)pyrene	193-39-5	3.5
Dibenzo(a,h)anthracene	53-70-3	2 5
Benzo(g,h,i)perylene	191-24-2	4
2-Nitroaniline	88-74-4	1

* These two parameters are reported as a total.
** These two parameters are reported as a total.
*** These two parameters are reported as a total.

( ) Values in parentheses are estimates.
The actual values are being determined at this time.

Note: Limits are for reagent water.

TABLE C (Cont)
SAS DRINKING WATER
INORGANIC DETECTION LIMITS

PARAMETER	PROCEDURE	DETECTION LIMIT
Aluminum	ICP	100
Antimony	GFAA	5
Arsenic	GFAA	5
Barium	ICP	50
Beryllium	ICP	5
Cadmium	GFAA	0 5
Calcium	ICP	1000
Chromium	ICP	10
Cobalt	ICP	10
Copper	ICP	10
Iron	ICP	100
Lead	GFAA	2
Magnesium	ICP	1000
Manganese	ICP	10
Mercury	Cold Vapor	0 2
Nickel	ICP	20
Potassium	ICP	2000
Selenium	GFAA	2
Silver	ICP	5
Sodium	ICP	1000
Thallium	GFAA	2
Tin	ICP	40
Vanadium	ICP	10
Zinc	ICP	20
Cyanide	Colorimetric	10

Note: The above list may or may not contain compounds that are routinely analyzed at CRL for lov level detection limits for drinking vater.

See Inorganic Routine Analytical Services (RAS) for related CAS #.

E

APPENDIX E

WELL LOGS OF THE AREA OF THE SITE

WELL LOG AND DRILLING REPORT

WL-1 ORIGINAL

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1500 Dublin Road
Columbus, Ohio

No 203283

County Butler Township Madison Section of Township 32 - Keith Sub.

Owner Oliver Corbet Address Rt #1, Trenton, Ohio

Location of property North side Trenton-Franklin Rd. - Keith Subd.

CONSTRUCTION DETAILS

Casing diameter 6" Length of casing 52 Ft.
Type of screen Perforated Casing Length of screen 5 ft.
Type of pump
Capacity of pump
Depth of pump setting
Date of completion Sept. 21, 1957

BAILING OR PUMPING TEST

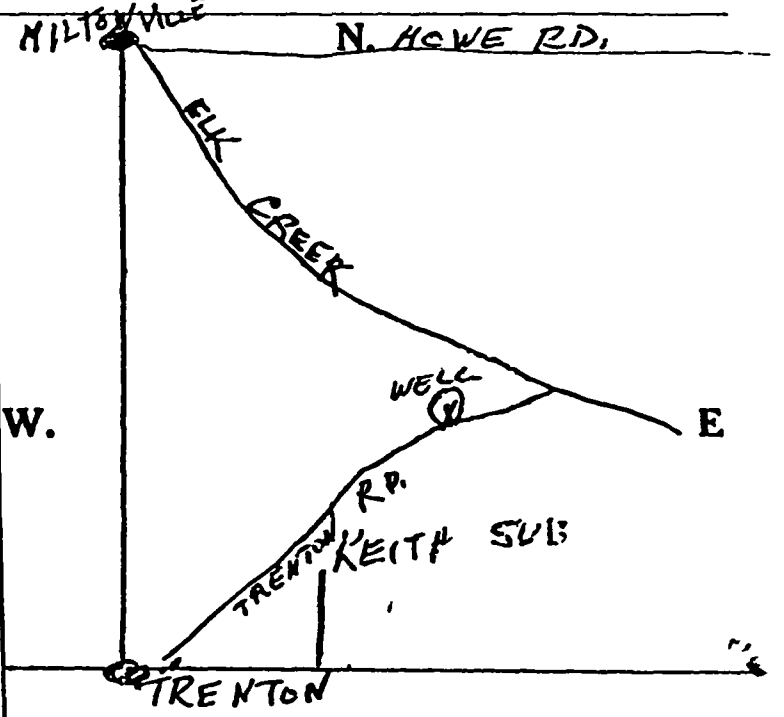
Pumping rate 20 G.P.M Duration of test 1 hrs
Drawdown ft. Date 9-21-57
Developed capacity 1200 G.P.H.
Static level—depth to water 32' ft.
Pump installed by

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
	0 Feet	52 Ft.
Topsoil	0	3
Sand + Gravel	3	30
Sand + Gravel with Water Bearing Strata.	30	52

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways St. Intersections, County roads etc



See reverse side for instructions

Drilling Firm Elmer Miller Date Sept. 21, 1957
Address Rt. #1 Germantown, Ohio Signed Elmer Miller

LOCATED

WEI LOG AND DRILLING RE' 'RT

WL-2 GINAL

NO CARBON PAPER NECESSARY- SELF-TRANSCRIBING

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Geological Survey
Fountain Square
Columbus Ohio 43224 Phone (614) 466 5344

487002

COUNTY Butler TOWNSHIP Madison SECTION OF TOWNSHIP OR LOT NUMBER 32

OWNER City of Trenton, Ohio ADDRESS

LOCATION OF PROPERTY Well #1 North Well Field

CONSTRUCTION DETAILS

Casing diameter 12" Length of casing ~~25~~ 43

Type of screen Cook brass see below Length of screen ~~20~~ 15

Type of pump

Capacity of pump

Depth of pump setting

Date of completion

BAILING OR PUMPING TEST
(specify one by circling)

Test rate 500 gpm Duration of test 24 hrs

Drawdown 5'9" ft Date 6/24/75

Static level (depth to water) 25'9" ft

Quality (clear cloudy taste, odor) Clear

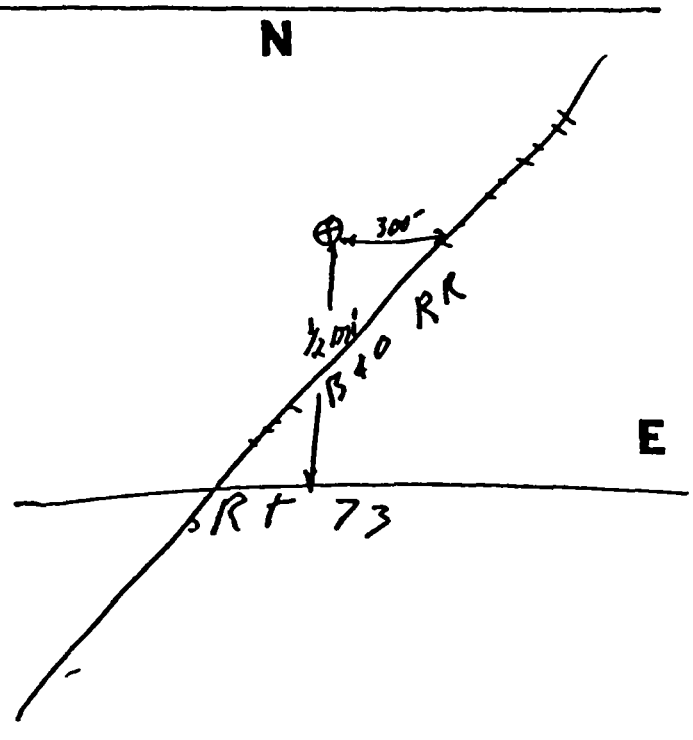
Pump installed by W CRANE

WELL LOG*

Formations: sandstone shale, limestone gravel clay	From	To
Dirty gravel	0 ft	1 ft
Coarse gravel	1	20
Sand	20	25
Sand & gravel	25	58
Hard blue clay	58	65
Screen detail		
Top 12 ft	#100	
Bottom 3 ft	# 30	
10" Tail pipe, 7ft		

SKETCH SHOWING LOCATION

Locate in reference to numbered state highways street intersections county roads etc.



DRILLING FIRM Wm Crane

ADDRESS Shandon, O

DATE 10/20/75

SIGNED Wm Crane

95b

*If additional space is needed to complete well log, use next consecutive numbered form.

X=1,446,500 ±4,000'
Y= 544,300

WELL LOG AND DRILLING REPORT

ORIGINAL

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
Columbus, Ohio

WL-3

Nº 137322

County Butler 9 Township Madison 6 Section of Township or Lot Number

Owner Arnold Pettit Address 434 N Broad Middletown Ohio

Location of property Southeast corner Hamilton Road Charlie Lane property Poplar st.

CONSTRUCTION DETAILS

Casing diameter 5 3/8 Length of casing 71'

Type of screen Length of screen

Type of pump

Capacity of pump

Depth of pump setting

PUMPING TEST

Pumping rate / GPM Duration of test hrs

Drawdown ft Date

Developed capacity

Static level—depth to water ft.

Pump installed by

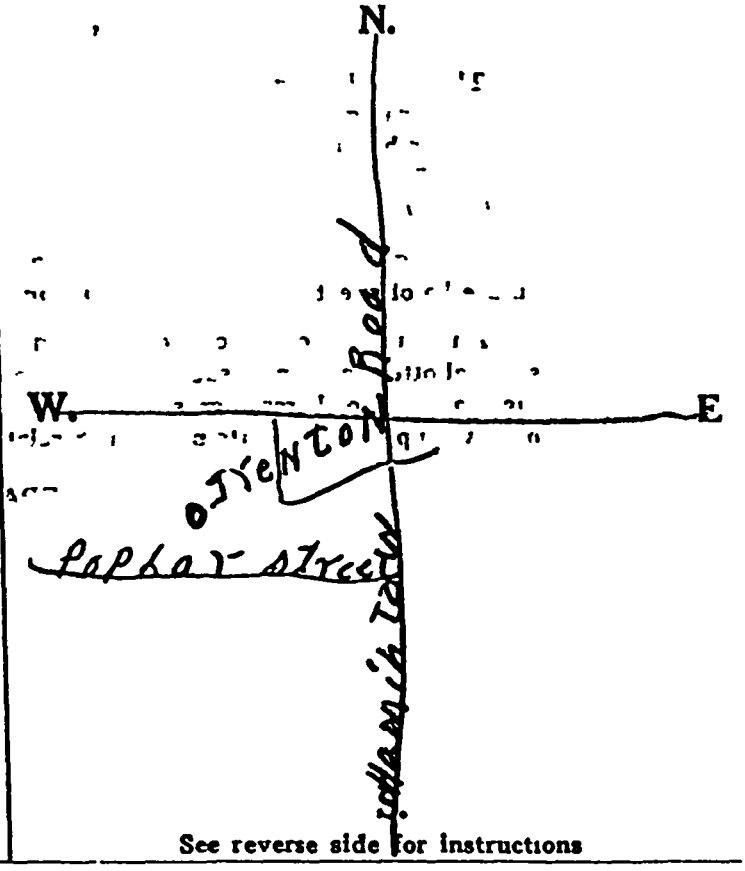
WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
	0 Feet	Ft.
Red gravelly clay		52
sand clay mix	52	66
hard pan	66	68
gravel	68	71

3

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads etc



See reverse side for instructions

Drilling Firm A. J. Ashley

Address P.O. Box 87 Carlisle

Date 11/22/54

Signed A. J. Ashley

LOG

County Permit No _____

NO CARBON PAPER NECESSARY- SELF-TRANSCRIBING

WELL LOG AND DRILLING REPORT

WL-4 ORIGINAL

530951

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
Fountain Square
Columbus Ohio 43224

COUNTY Butler TOWNSHIP Lemon SECTION OF TOWNSHIP _____

OWNER Leon Lockhard ADDRESS 301 Sal Blvd Trenton

LOCATION OF PROPERTY 5251 Ham-Trenton Rd

CONSTRUCTION DETAILS

Casing diameter 6" Length of casing 57'

Type of screen _____ Length of screen _____

Type of pump _____

Capacity of pump _____

Depth of pump setting _____

Date of completion _____

BAILING OR PUMPING TEST
(specify one by circling)

Test rate 10 gpm Duration of test 1/2 hrs

Drawdown 0 ft Date 10-14-78

Static level (depth to water) 21 ft

Quality (clear cloudy taste odor) cloudy

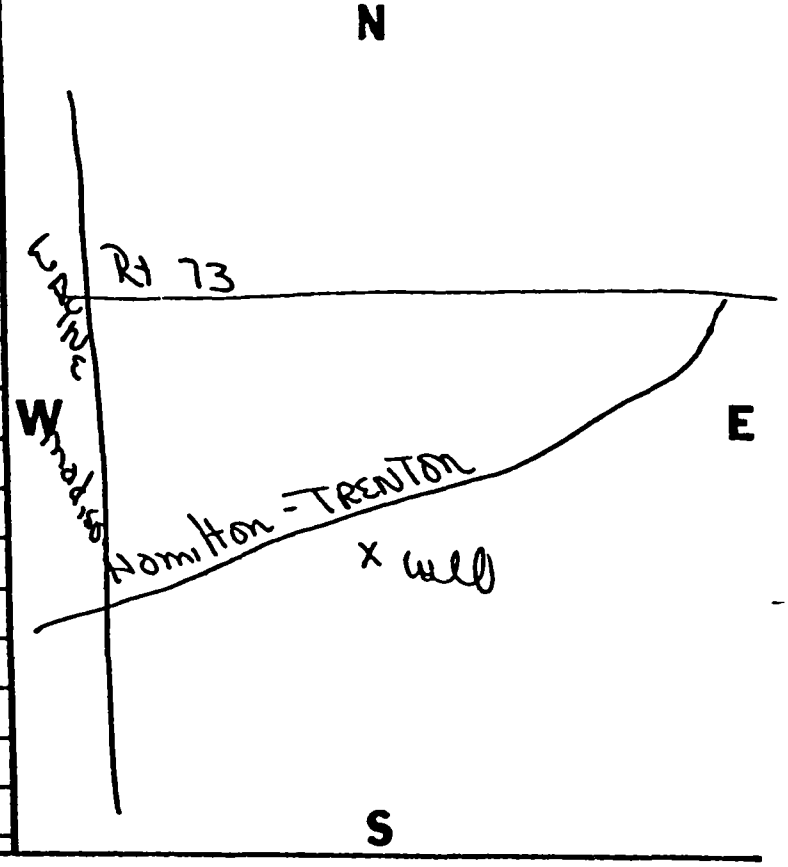
Pump installed by _____

WELL LOG*

Formations sandstone shale limestone gravel clay	From	To
topsoil	0 ft	5 ft
sand & gravel	5	57
2' of plug in bottom		

SKETCH SHOWING LOCATION

Locate in reference to numbered state highways street intersections county roads etc.



DRILLING FIRM TREATWAY WELL DRILLING DATE _____

ADDRESS 3775 Taylor School Rd. Hamilton, Ohio SIGNED _____

*If additional space is needed to complete well log, use next consecutive numbered form.

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